

Arpit Bhushan Sharma

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

KIET Group of Institutions, Ghaziabad - UP

(+91)8445726929 | arpit3043@gmail.com | www.linkedin.com/in/arpit3043 | www.kaggle.com/arpit3043 | bit.ly/arpit-google-scholar | www.arpit3043.medium.com | www.arpit-ml.blogspot.com

EDUCATION

COURSE	COLLEGE/SCHOOL	BOARD	YEAR	PERCENTAGE/CGPA
Bachelor of Technology	KIET Group of Institutions, Ghaziabad	Dr APJ Abdul Kalam Technical University, Lucknow	2020	77.73% 8.2 CGPA
Intermediate	Blue Bird Senior Secondary School, Aligarh	Central Board of Secondary Education	2015	82% 8.8 CGPA
High School	Blue Bird Senior Secondary School, Aligarh	Central Board of Secondary Education	2013	7.6 CGPA

RESEARCH INTERESTS

Machine Learning, Deep Learning, Internet of Things

PUBLICATIONS

- Arpit Bhushan Sharma, Sandeep Tiwari & Brijesh Singh, "Intelligent Speed Estimation in Induction Motor Drive Control using Feed - Forward Neural Network Assisted Model Reference Adaptive System" in 6th Student Conference on Engineering and Science 2020 held at MNNIT Prayagraj.
- Arpit Bhushan Sharma & Brijesh Singh, "Performance Evaluation and Identification of Optimal Classifier for Credit Card Fraudulent Detection" in Springer Scopus indexed Journal Cybernetics, Cognition and Machine Learning Applications (IF = 0.5).
- Harshit Kargeti, & Arpit Bhushan Sharma, "Issue and Challenges in the field of Big Data Analytics & IoT" in Scopus Indexed Journal International Journal of Innovative Technology and Exploring Engineering (IF = 0.6).
- Arpit Bhushan Sharma, Harshit Kargeti & Brijesh Singh, "PV System Based DC-DC Converter for Variations in the Load Demand, Irradiance, and Temperature", ICRAIE 2020, IEEE Poornima University, Jaipur
- Harshit Kargeti & Arpit Bhushan Sharma. "Investigation & Scrutiny of Protected Assignment Supervision Systems for Mobile Enabled with Internet Protocol version 6 Networks" in American Journal of Electrical and Computer Science Engineering.
- Arpit Bhushan Sharma, Sandeep Tiwari & Brijesh Singh, "Optimal Pitch Angle Identification and Minimization of Power Variation in Wind Energy Conversion System using Fuzzy Logic Control" in GUCON 2020 held at Galgotia University, India

COMMUNICATED PAPERS

- Arpit Bhushan Sharma & Harshit Kargeti, "Sentiment Analysis of Tweets using Automatic Coding on Nvivo 12" in Springer Web of Science indexed Journal Multimedia Tools & Applications (IF = 2.06).
- Arpit Bhushan Sharma & Harshit Kargeti, "Modeling and Simulation of Fast Steering Mirror Plant for Laser beam pointing Application" in MDPI Web of Science indexed Journal Energies (IF = 2.73).
- Arpit Bhushan Sharma & Harshit Kargeti, "Skin Cancer Detection using and Classification using ResNet50 and Fast AI" in IEEE Transactions (IF = 3.96).

WORK EXPERIENCE

- LAKSHMIKUMARAN & SRIDHARAN, NEW DELHI** **AUGUST 2020 – PRESENT**
Patent Analyst
 - Expert in knowledge of scientific and technical literature, reference tools, and on-line systems and searching for literature and resources on the Internet
 - Maintain proficiency with commercial patent searching databases and other proprietary databases of technical publications
 - Prepare a written opinion applying the most relevant prior art to the disclosure
 - Expert in writing the summary of a given novel idea by defending the claims and detecting the novelty concerning its Prior Arts.

2. UPGRAD, BANGLORE

OCTOBER 2020 – PRESENT

Part-Time Blogger & Content Writer

- Writing Blogs on Different technical topics: Data Science, Machine Learning, Artificial Intelligence, Programming, BlockChain, etc.
- Guide blog content from inception to completion by maintaining a content calendar with good at time management and tracking workflow.

3. 10XAI LEARNING, NOIDA UTTAR PRADESH

MAY 2020 – NOVEMBER 2020

Artificial Intelligence Developer

- Research and develop deep learning algorithms
- Working on different datasets and apply different algorithms to get better accuracy.
- Proof-Of-Concept exercise on identified Machine learning use cases
- Knowledge of one or more open-source Machine Learning framework
- Executing proof of concepts to assess the value of Artificial Intelligence use cases by making Notebooks

MACHINE LEARNING PROJECTS

1. AI Summary Tool

Details: The Project can read a document (PDF, Word or Excel spreadsheet) of many pages and can generate a summary of maximum 1 page.

(November 2019 – March 2020)

Guided by: Kuldeep Tyagi (CEO SARACA Solutions Pvt Ltd, Noida)

2. 3D Body Deformation using Pymesh

Details: This Project Transfer key points and Converts Picture of a Human body to 3D animation and then Deform every part of Human Body to get its actual size using human keypoint and approximation.

(September 2019 – October 2019)

Guided by: Ankush Pal (Project Manager IEO Makers Fab Lab, Delhi)

3. Full Body Detection and Measurement

Details: This Project is all about measuring the size of the Human Body to give its exact size using 7000 images

(September 2019 – October 2019)

Guided by: Ankush Pal (Project Manager IEO Makers Fab Lab, Delhi)

4. Text Extraction from Images using TensorFlow Bounding Box Technique

Details: The Model was made to extract text from image data using east deep learning technique. The model was trained to four layers of Convolutions Neural Network

(August 2019 – September 2019)

Guided by: Abhay Upadhyay (CEO IEO Makers Fab Lab, Delhi)

5. Twitter Sentiment Analysis and comparing results by NVivo 12

Details: The Project was made to predict the Nature of Tweet that a person posted whether its positive, negative, or Neutral using SpaCy and tweepy Libraries of Python.

(February 2019 - March 2019)

For: Modex (Technex, IIT BHU)

6. Image Caption Generator with CNN and LSTM

Details: Developed and implemented an image captioner using a CNN and LSTM which can caption every image by its content.

(November 2018 – January 2019)

For: Innovation Centre, (KIET Group of Institutions, Ghaziabad)

7. Optimal Algorithm for Credit Card Fraud Detection System

Details: A basic project to identify the best algorithm for accurate detection of fraud in credit card using machine learning.

(March 2020-August 2020)

For: Dr. Brijesh Singh, Convener CEPET and CEI and KIET IEEE SB Councillor

8. COVID 19 Detection using X-Ray images

Details: Developed and implemented an image detector using deep learning neural networks and TensorFlow to detect the corona Virus using X-Ray images and tested it on 25 people x-ray

(February 2020 – May 2020)

For: CEPET & CEI, (KIET Group of Institutions, Ghaziabad)

INTERNET OF THINGS PROJECTS

1. SMART AIR PURIFIER

Description: An Air Purifier, which Purifies the air and provides us with all the information through a graph on the nextron display

(March 2019 – July 2019)

Guided by: Alok Deep (Research Intern, IIT Delhi)

2. BIOMETRIC BASED ATTENDANCE SYSTEM

Description: An Attendance system cum door lock placed in Innovation Center, KIET where your fingerprint gives you access to unlock the room and mark your attendance at the server.

(August 2019 – October 2019)

Guided by: Abhay Upadhyay (CEO IEO Makers Fab Lab, Delhi)

3.HOME AUTOMATION

Description: A small prototype of Automated Home controlled through WIFI, Manual Switch, and Voice-activated Personal Assistants (Google Assistant and Amazon Alexa)

(September 2018 - November 2018)

For: Innotech, (KIET, Ghaziabad)

4.IoT BASED RAMP

Description: We have made a small Prototype Project based on Arduino UNO and Wifi Module ESP8266 Controlled by a Blynk Software.

(September 2018 - November 2018)

For: Innotech, (KIET, Ghaziabad)

ELECTRICAL ENGINEERING PROJECTS

1. PV System Based DC-DC Converter for Variations in the Load Demand, Irradiance, and Temperature

Details: Worked on simulation the variations of Load demand and Irradiance of solar panel and its temperature irradiance with the DC-DC Converter system using MATLAB Simulink.

(July 2020-December 2020)

Guided by: Dr. Brijesh Singh

2. Optimal Pitch Angle Identification and Minimization of Power Variation in Wind Energy Conversion System using Fuzzy Logic Control

Details: Worked on simulation of the wind turbine model in accordance with wind speed of any area to get optimal pitch angle for desired optimal power output for Indian homes and remove scarcity of electricity in slums and village.

(December 2019-April 2020)

Guided by: Dr. Brijesh Singh

3. Intelligent Speed Estimation in Induction Motor Drive Control using Feed - Forward Neural Network Assisted Model Reference Adaptive System

Details: Worked on 08, 20 and 02 neural network systems and Lambert Marquert algorithm for controlling the speed of squirrel cage induction motor and get the estimated speed according to generation of power.

(January 2020 - April 2020)

Guided by: Dr. Brijesh Singh

ACHIEVEMENTS

TECHNICAL

- Awarded as Young Research Scholar by Institute of Scholars (InSc) for Intelligent Speed Estimation in Induction Motor Drive Control using Feed - Forward Neural Network Assisted Model Reference Adaptive System, IEEE Paper and lifetime membership for InSc.
- Resource Person for **Webinar on Artificial Intelligence in Power System** conducted by ISIE India, KIET IEEE Student Branch and KIET Group of Institutions, Ghaziabad
- Conducted a **Webinar on Microsoft Azure Custom Vision** as a Beta Microsoft Student Partner 2020
- First Prize in Technical Poster presentation on **Pitch Angle Control of Wind Turbine using Fuzzy Logic Control** at Jayawantrao Sawant College of Engineering conducted by IEEE Pune Section.
- Technical Poster presentation on **Pitch Angle Control of Wind Turbine using Fuzzy Inference System for Voltage and Frequency control** at 3rd International Conference of CIPECH'18 held at KIET Ghaziabad
- First Prize in Technical Poster presentation on **Optimal detection of Pitch Angle of Wind Turbine using Fuzzy Inference System for Voltage and Frequency control** at KAPTeC'19 held at Abdul Kalam technical University, Lucknow
- Microsoft Certified **Python Programmer 2019** with 76% in Python Exam
- Infosys Certified **Python Programmer for 2019** with 68% in InfyTQ Exam
- All India Rank 812 out of 1 Lakh Students in **Intellectual Property Talent Search Exam** conducted by ASSOCHAM
- 1st Rank in **Mathematics Olympiad** Conducted by Learning Pundits, Bangalore in KIET Group of Institutions, Ghaziabad.

CULTURAL

- First Runner-Up in CREATIVE WRITING held by LITERARY FEST in KIET Group of Institutions, Ghaziabad
- First Runner-Up in Chess Championship in Applied Science department in KIET Group of Institutions, Ghaziabad.
- First Runner-Up in Face Painting in EPOQUE'18 at KIET Group of Institutions, Ghaziabad

INTERNSHIPS

1. University of Politca Bucharest, Romania

Details: Working on the images of Second Harmonic Generation Microscopy on healthy (control) and oedematous cornea of human eye with transfer learning approach with any pre-trained model to classify the images given and the results of classification with accuracy of 98%.

(May 2020-Present)

Guided by: Dr Prof Stefan George Stanciu (Scientific Researcher, University of Politca Bucharest)

Dr. Prof Juan Manuel Bueno (Universidad De Murcia)

2. SARACA Solutions, Noida

Detail: Working on the Project that can read a document (PDF, Word or Excel spreadsheet) of many pages and can generate a summary of maximum 1 page by NLP, LSTM, and Stop-words library.

(November 2019 – February 2020)

Guided by: Kuldeep Tyagi, (CEO SARACA Solutions, Noida)

3. IEO Makers Fab Lab, New Delhi

Details: Organized 60 Hr. Training for 1st Year and 2nd Year students on Embedded Systems and IoT at KIET Makers Fab Lab, Innovation Centre

(June 2019 – July 2019)

Trainee at Innovation Centre, KIET Group of Institutions, Ghaziabad

4. Uttar Pradesh Power Transfer Corporation Limited (UPPTCL), Muradnagar

Details: learned about the basics of Power System and the basic Pumps - DC JOP, DC EOP, DC SOP & Battery Panel used in the new Plant set up by Toshiba

(May 2019 – June 2019)

Trained at UPPTCL Muradnagar

5. UPRUVNL (Harduaganj Thermal Power Plant), Aligarh

Details: learned about the basics of Power System and the basic Pumps - DC JOP, DC EOP, DC SOP & Battery Panel used in the new Plant set up by Toshiba

(July 2018 – August 2018)

Trained at EMD II Department

6. Notice App, NASSCOM, New Delhi

Details: learned about the basics of C Programming and worked on the projects based on C Programming

(December 2017 – January 2018)

Trained at Notice App, Palam, New Delhi

TEACHING EXPERIENCE

1. President at Innovation Centre

Detail: Innovation Centre is a small Start-up initiated by MHRD, India and progressively working on industrial projects-based learning and creating an environment to assess students for variety of projects.

(January 2019 to July 2019)

Guided by: Abhay Upadhyay (Head and Founder)

2. Student Teaching Assistant

Detail: Teaching and Training BTech First Year students on Embedded Systems and Internet of things for Academic subject and for Industry project respectively for Odd Semester 2019

(July 2019 – November 2019)

Guided by: Dean Academics, KIET Ghaziabad

3. Teaching Assistant

Detail: Teaching and Training BTech Second Year students on Artificial Intelligence & Machine Learning for Academic subject and for Industrial projects respectively for Odd Semester 2019

(July 2019 – November 2019)

Guided by: Neeraj Gupta (HoD EN Department), KIET Ghaziabad

4. Internship Trainee

Detail: Provide Internship to BTech First year, Second Year and Third Year students on Embedded Systems & Internet of Things for Academic Internship sponsored by KIET Innovation Centre, Ghaziabad and trained them for Industrial projects on Arduino and Raspberry PI for Odd Semester 2019

(June 2019 – July 2019)

Guided by: IEO Makers Fab Lab, Delhi

5. Workshop trainee

Detail: Conducted a two days' Workshop in College on Artificial Intelligence & Machine Learning teaching them from basics to master in Machine Learning sponsored by KIET Innovation Centre, Ghaziabad and trained them for Industrial projects.

(26 December 2019 – 27 December 2019)

Guided by: Innovation Centre, KIET Ghaziabad

TECHNICAL SKILLS

Programming languages

C, Python, Bash, Shell,

Tools/Platforms

Arduino, MATLAB, GNU Octave, MS - Visual Studio, Git, Sublime Text, LaTeX, Spyder, Jupyter Notebook, Google Colab, PyCharm, LT Spice, Ansys, Proteus

Operating Systems

Linux, Windows, Raspbian OS

ADDITIONAL EXAMS DETAILS

1. TOEFL iBT (Online)

Reading = 15 Writing = 21 Listening = 17 Speaking = 22
Overall Score – 75

2. Cambridge English Entry Level Certification (Business Preliminary) - 2019

Reading = 127 Writing = 145 Listening = 143 Speaking = 151
Overall Score – 142 (B1)

3. Deep Learning Specialization (Coursera) - 2019

From: deeplearning.ai

Overall Score – 96.32%

SOCIAL- VOLUNTEERACTIVITIES

- Organizer of Global Waste management environment summit'2020 at Le' Méridien Hotel, New Delhi
- IEEE R-10 Student Member 2020
- IEEE PES Student Member 2020
- IEEE PELS Student Member 2020
- InSc Lifetime Membership 2020
- Research Paper and Journal Reviewer at InSc Institute of Scholar, Bangalore, India
- Microsoft Student Partner 2020 at Alpha Stage.
- Coordinator of Distinguish Lecture Series (DLS), Held by KIET IEEE Local Chapter in KIET Group of Institution, Ghaziabad.
- Coordinator in 3rd international Conference of IEEE CIPECH – 2018, at KIET Group of Institutions, Ghaziabad.
- Volunteer for Nation with Narendra Modi
- Blood Donation Camp at Ghaziabad Government Authority, Uttar Pradesh
- Blood Donation Camp at Rotary Club Ghaziabad, Uttar Pradesh

HOBBIES

Reading Novels, Playing Chess, Story Writing

NAME: Arpit Bhushan Sharma
PLACE: Aligarh, Uttar Pradesh