Akshat Johar

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EDUCATION

BITS Pilani University — Hyderabad, India
Bachelor of Engineering in Electrical and Electronics — *Expected June 2024*
- CGPA: 9.32

SGGS — Chandigarh, India
10+2 — *2019-20*
- 94 Percent

WORK EXPERIENCE

Summer Intern — June 2022 – Present
Indian Institute of Remote Sensing (ISRO), Dehradun — *Dehradun, India*
- Worked on developing Deep Learning Models like LSTMs and GRUs to predict PM concentration over the country with the help of sattelite data from the organisation and generating a spatial map with the predicted values. Implementation done with the help of Python Libraries such as Pytorch, Keras, TensorFlow, Geopandas

TECHNICAL SKILLS

Languages: C, C++, Python, R, JavaScript, Verilog, MATLAB
Frontend: HTML, CSS, React JS, Bootstrap
Backend: Node JS, Express JS, MongoDB
Others: Git, ggplot2, Matplotlib, Numpy, Pandas, Keras, Tensorflow, Pytorch , Geopandas, Seaborn, Arduino , ESP, AutoCAD, LTSpice, Xilinx, Assembly Language

PROJECTS

Chat Application | *MERN Stack, SocketIO, Chakra UI* — January 2022 – February 2022
- A real-time responsive Chat Application on which users can interact with each other as well as in groups. Cloudinary is used for users to upload their profile images.
- User Authentication and Database Management is accomplished by using MongoDB

Water Quality Index Prediction | *Deep Learning, IoT, Neural Networks, Arduino* — January 2022 – May 2022
- System capable of time - series forecasting and regression model based on Recurrent Neural Networks to predict Water Quality Index of Water Samples

Spherical Survelliance Bot | *Arduino, Esp32, SPI* — September 2021 – December 2021
- A remote controlled surveillance bot capable of traversing on different terrains and simultaneously providing live video as well as audio feed at the base station.

LEADERSHIP & EXPERIENCE

Department Head — June 2022 – Present
Department of Photography, Bits Pilani, Hyderabad — *Hyderabad, India*

Tech Team Member — July 2021 – Present
PHoEnix Association, Bits Pilani, Hyderabad — *Hyderabad, India*

Team Leader — September 2021 – December 2021
Inter College Robothon Competition, Hyderabad — *Hyderabad, India*

CO CIRRICULAR ACTIVITIES

- State-Level Badminton Player.

- IMO and NSO Topper.

- NTSE Scholarship Awardee.