

Akshat Johar

+91 98961-11979 | akshatjohar@outlook.com | [LinkedIn](#) | github.com/akjo18 | [Portfolio Website](#)

EDUCATION

BITS Pilani University

Bachelor of Engineering in Electrical and Electronics

- CGPA: 9.32

Hyderabad, India

Expected June 2024

SGGS

10+2

- 94 Percent

Chandigarh, India

2019-20

WORK EXPERIENCE

Summer Intern

Indian Institute of Remote Sensing (ISRO), Dehradun

June 2022 – Present

Dehradun, India

- Worked on developing Deep Learning Models like LSTMs and GRUs to predict PM concentration over the country with the help of satellite 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 Surveillance 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

Department of Photography, Bits Pilani, Hyderabad

June 2022 – Present

Hyderabad, India

Tech Team Member

PHoEnix Association, Bits Pilani, Hyderabad

July 2021 – Present

Hyderabad, India

Team Leader

Inter College Robothon Competition, Hyderabad

September 2021 – December 2021

Hyderabad, India

CO CURRICULAR ACTIVITIES

- State-Level Badminton Player.
- IMO and NSO Topper.
- NTSE Scholarship Awardee.