Suman Kumar Verma

Final Year Undergrad
Electrical and Electronics Engineering
Minor in Software Engineering
National Institute Of Technology, Andhra Pradesh

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Education

•National Institute of Technology, Andhra Pradesh — West Godavari, India
B.Tech. in Electrical and Electronics Engineering; Minor Degree in Software Engineering — ***CGPA: 7.84/10*** — *Nov 2020 – Jun 2024 (Expected)*

•Jawahar Navodaya Vidyalaya, Giridih — Giridih, India
Senior Secondary (XII) *CBSE* — ***Percentage - 89.4%*** — *2019*
Secondary (X) *CBSE* — ***CGPA - 9.8/10*** — *2017*

Experience

•Academic Section, Indian Institute of Technology Patna — *May, 2023 - Present*
Web Development Project Intern — Bihta, India
- Built responsive UI interfaces in React utilizing tailwind css library
- Worked with API team on designing and development of RESTful APIs
- Made use of my understanding in NodeJs in development of RestAPIs

Projects

•Solar energy prediction — *Jan, 2023- May ,2023*
Tested various ML and DL models and found Random forest as best model with 1.30e+6 MAE score

- Tools & technologies used: Python, Pandas, Numpy, sklearn, tensolflow, keras etc.
- Developed a machine learning project to predict short-term solar energy using a dataset from AMS.
- Utilized Python, Pandas, Numpy, sklearn, TensorFlow, and Keras to implement various linear and ensemble models, including SVM, decision trees, and random forest.
- Employed deep learning techniques such as Artificial Neural Networks (ANN) to improve the accuracy of solar energy predictions.

•Stability of Smart Grid — *Feb, 2023- May ,2023*
Selected best model as the ANN with 96.74score

- Tools & technologies used: Python, Pandas, Numpy, sklearn, tensolflow, keras etc
- Contributed to a machine learning project focused on predicting the stability of the smart grid using UCI Electrical Grid Stability Simulated Datasets
- Leveraged Python, Pandas, Numpy, sklearn, TensorFlow, and Keras to apply advanced machine learning and deep learning algorithms, including Random Forests and Artificial Neural Networks (ANN)

Technical Skills and Interests

Languages: C/C++, Python, Java, SQL, JavaScript, HTML/CSS, MATLAB
Frameworks: React, NodeJs, ExpressJs, Pandas, NumPy, Matplotlib
Relevent Coursework: Introduction to Machine Learning, Algorithmic Thinking and Programming, Data Structures and Algorithms, Object Oriented Programming, Database Management System

Certifications

Computer Vision	Kaggle	June 2023
Intermediate Machine Learning	Kaggle	June 2023
Intro to Deep Learing	Kaggle	May 2023
Introduction to Python (Excellence)	Coding Ninzas	Jan 2022
Python (Basic)	HackerRank	Feb 2021
Google Cloud Computing Foundations: Data, ML, and AI in Google Cloud	Google Cloud Skills Boost	May 2023

Positions of Responsibility

•Executive Member, Electrical Engineering Association, NIT Andhra Pradesh — *Aug 2021- July 2022*

•Executive Member, Literary & Debate Club, NIT Andhra Pradesh — *Aug 2021- July 2022*

Achievements

•Secured position under top 5% in JEE Mains 2020 from over 1.2M Candidates