

SAURABH PANDEY

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🌐 [Saurabh Pandey](#)

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Education

Birla Institute of Technology, Mesra

Bachelor of Technology (EEE) CGPA - 8.20

Nov 2022 – Present

Ranchi, Jharkhand

Central Public Academy

12th-91.6%

2020 – 2022

Gorakhpur, UP

Skills

Languages: Python, SQL

Technical Skills: Machine Learning, Data Analysis, Deep Learning, NLP, PCB Designing

Tools: TensorFlow, scikit-learn, Keras, MySQL, Git, GitHub, Eagle

Soft Skills: Leadership, Management, Teamwork, Communication, Public Speaking

Projects

Student Performance | *Scikit-Learn, Random Forest*

[GitHub Link](#)

- The dataset includes 1,000 student records with features like gender, race, parental education, lunch type, test prep course, math scores, etc., to analyze academic performance.
- Demonstrated with Scikit-Learn to train and test the model over ensemble learning techniques such as Random Forest, KNN, and Decision trees with maximized accuracy up to 88.06.

Battery Voltage Prediction | *ANN, LSTM*

[GitHub Link](#)

- Designed and developed a custom neural network from scratch, initially implementing an ANN before transitioning to LSTM for time-series predictions.
- Built a unique two-stage model: predicted 8 battery parameters, then computed voltage using mathematical equations and backpropagated error for optimization.
- Conducted hyperparameter tuning and manual optimization, achieving a 20 percent accuracy boost without relying on external libraries.

Holiday Package Prediciton | *Scikit-Learn, Gradient Boost*

[GitHub Link](#)

- Developed a machine learning model to segment customers and optimize marketing strategies, efficiently targeting potential buyers for new Wellness Tourism packages.
- Implemented a data-driven approach to customer segmentation, creating tailored strategies that improved conversion rates, ultimately resulting in a 15 percent increase in average order value for Trips Travel.Com's promotional campaigns.

Achievements

- Rank 1 in the Summer Mentorship Program organized by EEESOC BIT Mesra.
- Secured second runner-up position in E-Baja SAEINDIA 2024 for separating HV and LV wirelessly.
- Awarded GP Birla Scholarship for excellent academic performance in MO-23 Semester.

Leadership

General Secretary - Electrical and Electronics Engineering Society

Jan 2023 – Present

- Successfully organized the 2 flagship events of the club, BOT-Soccer, both having a footfall of 1000+ students and played a pivotal role in leading the project on Machine Learning
- Directed and executed the club's recruitment initiative, engaging over 250+ students from the K23 Batch

Electrical Lead - Team Aveon Racing

Jan 2023 – Present

- Guided a team of 15 juniors in designing and developing the electrical system of an E-Baja SAEINDIA vehicle, contributing to a second runner-up finish at the final event.
- Developed a custom PCB to centralize low-voltage components and established a Wi-Fi connection between sender and receiver circuits for real-time monitoring and control.

Executive Member - Society for Data Science

Aug 2023 – Present

- Successfully organized the flagship events of the club, Data Science Summit, and played a pivotal role in organizing the workshop on Data Science.