Vipin Kumar

Roll No.: 2020kuec2023
Bachelor of Technology
Electronics and Communication Engineering
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GitHub Profile
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Education

•Indian Institute of Information Technology, Kota *2024*
Bachelor of Technology in Computer Science CGPA: 6.54

•Nav Jyoti Senior Secondary School, Rewari *2018*
Central Board of Secondary Education CGPA: 7.8

•Nav Jyoti Senior Secondary School, Rewari *2016*
Central Board of Secondary Education CGPA: 7.4

Technical Skills and Interests

Data Analysis: SQL, Python.
Developer Tools: VS Code, Pycharm, Google Colab, Git, Docker, AWS.
Coursework: Exploratory data analysis (EDA), DBMS, System Design, DSA, Mathematics.
Technical Skills: Data Visualization, Cloud Computing(AWS), Statistical Analysis.
Interests: ETL (Extract, Transform, Load), Machine Learning, Artificial Intelligence (AI).

Soft Skills

Languages:English, Hindi.
Soft Skills: Analytical Thinking, Problem-Solving, Communication, Team Collaboration, data analysis.

Personal Projects

Student Exam Performance Indicator Using Machine Learning - GitHub *May 2024- June 2024*

- Developed a comprehensive machine learning-based application designed to predict student exam performance. This project utilized a full deployment pipeline to create an end-to-end solution that provides insights into student performance .
- Analyzed and optimized data pipelines, resulting in a 12 percent increase in data processing efficiency.
- Key Responsibilities: Data Collection, Exploratory data analysis (EDA), Data Ingestion, Data Transformation, Model Trainer, Predict Pipeline, Deployment, User Interface .
- Programming Languages: Python, SQL.
- Libraries and Frameworks: Pandas, NumPy, Scikit-learn, Flask.
- Tools: Docker, Git, Jupyter Notebooks.
- Deployment: AWS.

Detecting depression from EEG signals using AI and machine learning techniques - GitHub *June 2023- July 2023*

- Data Collection and Preprocessing, Feature Extraction, Model Development like Machine Learning Models, Model Evaluation .
- Analyzed and optimized data pipelines, resulting in a 20 percent increase in data processing efficiency(after using CNN).
- Depression Detection Using EEG Signals Dataset for Brain signals.
- Using machine learning algorithms like Linear regression , Random Forest, XGB.
- Using deep learning algorithm like CNN.
- Results from algorithms compared.

Achievements

– **Hackerrank** : **(SQL Certificate**)
– **Leet Code** : Resolved over **250**+ problems, including **150**+ **medium** difficulty problems,demonstrating a strong grasp of algorithms and data structures.