VIKRANT MISHRA

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Education

Cluster Innovation Centre, University of Delhi *Nov 2022 - Till Date*

B.Tech in Information Technology & Mathematical Innovation 9.13/10 CGPA

Radiant Central Children Academy *April 2018 - May 2022*

Senior Secondary 92.2%

High School 92.3%

Technical Skills

Languages: Java, JavaScript, C, HTML, SQL, Python, MatLab

Backend: Node.js, Express.js

Frontend: React, TailwindCSS, HTML, CSS, Bootstrap, EJS, JavaScript

Databases: PostgreSQL, MySQL

Developer Tools: VS Code, Git, GitHub, Replit, IntelliJ, Postman

Other Technologies: Google OAuth, jQuery, NPM, JSON, APIs, Mathematica, QGIS

Projects

Court Efficiency Index: Build a Court Efficiency Index based on the data from the NITI AYOG of Pan India Subordinate courts.

- Formed the Index using the Delay Ratio, Old Pending Percentage, Pending Case Growth, Case Disposal Rate,Pending-to-Disposed Ratio which were derived from the data of Pending Cases and Cases Resolved.
- Provided weights to the parameters from PCA.
- Performed the Geospatial Visualization for the Index using QGIS.
- Source Code

Bankruptcy Prediction Model: Developed a hybrid Bankruptcy Prediction Model combining Neural Networks, XGBoost, and Logistic Regression to predict company bankruptcy based on the financial ratios and indicators.

- Applied Smote as the data was highly unbalanced.
- Used Stacked Autoencoder for dimensionality reduction of the data.
- Achieved an Accuracy of 97 percent validated by AUC of 0.97 and a Precision of 0.99 for Non-bankruptcy and 0.62 for Bankruptcy.
- Source Code

Lights Out Game: A browser-based game using HTML, CSS, and JavaScript.

- Implemented game logic with linear algebra concepts for grid-based patterns.
- Utilized Tailwind CSS for responsive UI development.
- Source Code

Relevant Coursework

Object-Oriented Programming, Computer Systems Architecture, Operating Systems, Design and Analysis of Algorithms, DBMS, Discrete Mathematics, Linear Algebra, Differential Calculus, Ordinary Differential Equations, Probability and Statistics, Software Engineering