Ritvik Singh

+91 7042123115 | ritviksingh003@gmail.com | https://www.linkedin.com/in/ritvik-singh-a78696267/ |

EDUCATION

SANSKRITI SCHOOL   NEW DELHI, DELHI
High School   *Aug. 2018 – May 2022*

MANIPAL UNIVERSITY JAIPUR   JAIPUR, RAJASTHAN
BTech Computer Science and Engineering   *Aug. 2022 – Present*

PROJECTS

Online Exam System
php,Mysql,Bootstrap,Javascript
- Developed a custom online assessment tool using PHP and MySQL, enabling instructors to create and manage tailored exams and quizzes for up to 100 users.
- Designed an intuitive admin interface that made examining content management more accessible and reduced setup time by 40percent
- Engineered a secure and scalable database schema to store and manage over 100 profiles of different students, their exam questions, and their performance records.
- Implemented real-time functionalities to streamline exam operations, and this was incredibly helpful in increasing efficiency while maintaining a seamless experience for both administrators and students.

Credit Card Fraud Detection
Python,Logistic Regression,Pandas,Numpy,TensorFlow,Keras
- Developed linear regression models in Python to predict transaction behavior. Analyzing features like amount, frequency, and time could identify potential fraud and enhance predictive accuracy while improving the detection of fraud.
- The feature scaling and selection techniques were applied, and the accuracy of a linear regression model improved with a predictive performance over 0.90 (R^2) while enhancing the capability to detect anomalies in transaction patterns.
- Developed and trained a convolutional neural network using TensorFlow and Keras for deep learning-based detection of fraudulent and legitimate transactions with high accuracy and model robustness.
- Fine-tuned CNN hyperparameters, added dropout layers, and used batch normalization in Keras to prevent overfitting and achieved 92% model accuracy with robust detection of fraudulent transactions from large datasets.

EXPERIENCE

Backend Developer Intern/Trannie   July 2024 – Aug 2024
TravanSoft Solutions
* Gained hands-on experience and training in PHP by working on minor tasks and practice projects.
* Completed comprehensive training in Laravel, gaining insights into the development of major and minor projects.

Software Development Intern   Nov 2024 – Present
Manipal University Jaipur
* Developing a chatbot backend using Node.js, MongoDB, and Flask to handle student queries.
* Collected and analyzed 100+ survey responses to enhance the chatbot's database lookup accuracy.
* Designing an optimized query mechanism, improving response accuracy by 30% in early testing.
* Leading a team of four developers, ensuring structured development and seamless integration.

TECHNICAL SKILLS

Languages: php, C/C++, SQL, JavaScript, Python,DSA(Beginner)
Machine Learning : Python, Pandas, numpy, Matplotlib, Supervised and Unsupervised Learning, TensorFlow, Keras

Developer Tools:VS Code, IntelliJ, Google Colab