Kushal Rana

Software Developer Engineer - SDE

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Education

2020 - Present **Bachelor of Technology** (Computer Science and Engineering) from a **IKGPTU Mohali Campus-1 (Aggregate: 7.8/10)**

Skills

Programming language: Python, C++, C, HTML, CSS, SQL
Technical Skill: Data Structure and Algorithms, Computer network, Object-Oriented Programming, Data analysis, Machine learning algorithms
Other Tools: FastAPI, Django, Jupyter Notebook, Google Colab, VS Code, Github, Docker, MongoDB

Projects

Heart Disease Prediction   Link to Demo

- Attained an 85 percent accuracy rate in the prediction of heart disease by leveraging advanced machine learning techniques.

- Demonstrated expertise in data preprocessing and feature engineering, effectively optimizing a Kaggle dataset to elevate predictive model performance.

- **Technologies used: Python, Data pre-processing, machine learning algorithm (Logistic regression), Git.**

End to End Recommendation System   Link to Demo

- Developed a cutting-edge content-based recommendation system by harnessing Python and advanced machine learning methodologies. This system offered tailored suggestions for images and posts, enhancing user engagement and satisfaction.

- Implemented a scalable API integration solution with FastAPI, supported by Render Cloud for robust scalability, and managed data storage through MongoDB.

- **Technologies used: Python, Machine learning, Data analysis, API integration, Render Cloud, Docker. MongoDB Database.**

Health App Data Analysis   Link to Demo

- Conducted an in-depth analysis of health application data, leveraging a diverse set of data points and intricate pattern recognition techniques to evaluate user health and activity patterns.

- Generated a comprehensive report summarizing key insights and strategic recommendations resulting from the health app assessment.

- **Technologies and Techniques used: Python, Pandas, Numpy, EDA (Exploratory Data Analysis), Data cleaning.**

Certifications

IBM Data Analyst Specialization
Machine Learning Specialization(From Coursera)