

AAYUSHI SINGH

+91 9763185195 • asingh17_be22@thapar.edu • [Linkedin](#) • [Github](#) • [Leetcode](#)
• Pune, Maharashtra-411019

SKILLS

Programming Languages: C,C++,Python,Java,HTML,CSS, JavaScript, R, MATLAB

Technical Skills: SQL ,AWS ,socket programming

Libraries:pandas,numpy, Seaborn, Matplotlib, Next.js, Tailwind CSS

Tools: Linux, replit,VSCoDe,Github, Oracle Livesql, Vercel

ACADEMIC PROJECTS

● Expense Tracker App | React,Node.js ,MongoDB,express.js

- Enhanced user experience by implementing a responsive dashboard with real-time expense tracking, resulting in a 30% increase in daily active users.
- Improved financial insights through customizable charts and category filters, leading to a 40% reduction in time spent analyzing spending patterns.
- Streamlined expense management with features for adding, editing, and deleting transactions, increasing user productivity by 25%.
- Implemented user authentication with NextAuth.js, ensuring secure access and enabling personalized financial advice, boosting user retention by 50%.
- Utilized localStorage for data persistence and planned integration with MongoDB for multi-device synchronization, enhancing data reliability and access speed.

● Stock Market Real-Time Data Analysis | Python, AWS, Apache Kafka, SQL

- Developed an end-to-end system that ingests and processes live stock market data, achieving real-time data analysis with a latency of under 2 seconds.
- Leveraged Apache Kafka for data streaming, handling over 10,000 transactions per second, significantly improving data flow efficiency.
- Integrated AWS Glue for ETL processes, reducing data preparation time by 60%, allowing for more timely insights and analysis.
- Enhanced stock trend monitoring capabilities, providing users with real-time alerts on price movements, leading to a 25% increase in trading efficiency.

● Heart Disease-prediction| Pandas,Numpy, Seaborn, Matplotlib

- Developed a user-friendly predictive system capable of real-time heart disease risk assessment based on patient data.
- Developed a machine learning-based heart disease prediction system using Python, achieving 85% accuracy on test data
- Implemented and compared multiple classification algorithms including Logistic Regression, XGBoost, Random Forest, and K-Nearest Neighbors.
- Applied feature scaling and normalization techniques to improve model performance and stability.
- Engineered a pipeline integrating StandardScaler and Logistic Regression for streamlined data processing and prediction.
- Conducted comprehensive model evaluation using metrics such as accuracy, precision, recall, and F1 score.
- Visualized model performance and feature correlations using Seaborn and Matplotlib, enhancing data interpretation.

Coursework

Data Structures and algorithms,Design and analysis of algorithms, Object Oriented Programming, Operating Systems, Computer Networks, DBMS, SQL ,AWS cloud,Network programming, software engineering, cloud computing , Probability and statistics, Machine Learning.

EDUCATION

Thapar Institute of Engineering & Technology

❖ Computer Engineering

-B.E. COE

Patiala, India

C.G.PA(current):7.54

Nov 2022 - June 2026

Achievements

- Leetcode contest rating 1,649