SIDDHARTH BHOPLE

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Education

Rochester Institute of Technology

Masters in Computer Science (Grade: 3.72 / 4.0)

Aug 2024 – Aug 2026 Rochester, NY

Dec 2020 - June 2024

Institute of Engineering and Science, IPS Academy

Bachelors in Computer Science Indore, India

Experience

Verzeo EduTech May 2021 – July 2021

Machine Learning Intern

Indore, India

- Achieved 71% accuracy with ML models employing Naïve Bayes, SVM, and Logistic Regression, outperforming baseline by 15%
- \bullet Transformed preprocessing pipeline to cut sparse features by 30% and expedite training with the aid of Python and TensorFlow
- Designed a content-based movie recommendation system that processed **5,000+ movies** and delivered top-5 personalized recommendations in under **1 second/query**.
- Created interactive dashboards to analyze user behavior and feature correlations, cutting manual analysis time by 50%.

Projects

Real-Time Stock Analysis Dashboard | React (Vite), Recharts, Firebase, FastAPI, ML Libraries

July 2025

- Designed and deployed a full-stack stock analysis web application with interactive multi-timeframe charts, anomaly detection, and predictive modeling.
- Implemented multiple machine learning algorithms (Linear Regression, Random Forest, XGBoost, LightGBM, CNN) with technical indicators, improving prediction accuracy as measured by R², MAE, and MSE.
- Integrated **Firebase** for persistent watchlist functionality and **News API** for sentiment-based market insights.
- Deployed frontend on Vercel and backend on Railway with 99.9% uptime, supporting more than 100 active users.

Movie Recommendation System | Python, Scikit-learn, Pandas, NLTK

June 2024

- Built content-based recommender (CountVectorizer + cosine similarity) on **5K+ movies**.
- Improved similarity accuracy 18% via improved preprocessing (stemming + feature engineering).
- Launched an interactive web application using **Streamlit**, allowing users to discover similar movies based on content analysis.

PG Life Web Application | HTML, CSS, Bootstrap 5, Javascript, AJAX, PHP, MySQL

March 2023

- Pioneered the development of a **full-stack housing platform** that empowered users to explore and bookmark accommodations across numerous cities with user authentication and real-time resource updates
- Accelerated SQL queries \rightarrow 40% faster load times, improving property browsing experience
- Executed the deployment of a **fully responsive UI** across desktop and mobile environments, optimizing user interaction by leveraging **Bootstrap** and **CSS Grid**

Technical Skills

Languages: Python, Java, JavaScript (React, Node.js), C/C++, SQL, HTML/CSS, C#/.NET

Frameworks/Tools: FastAPI, Streamlit, Vite, Bootstrap, TailwindCSS, Firebase, JavaFX, Git, VS Code

Data/ML Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, XGBoost, LightGBM, NLTK, Recharts, TA-Lib

Databases: MySQL, PostgreSQL

Relevant Coursework

- Advanced OOP
- Foundations of Algorithms
- Machine Learning

- Artificial Intelligence
- Computer Science Theory
- Big Data

- Advanced Programming skills (C#/.NET)
- Foundations of Cryptography

Certifications

Full Stack Web Development with React - Internshala (March, 2023)

Machine Learning With Python - Verzeo EduTech (July, 2021)