

Yash Agrawal

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EDUCATION

Indian Institute of Technology, Madras

2022 – 2026

B.S. Data Science and Application

Current GPA: 8.74/10.0

Courses: AI, DL, Machine Learning Techniques, Tools in Data Science, Programming, Data Structures & Algorithms, System Commands, Linear Algebra, Probability & Statistics

SKILLS

Technical Skills: Python, JavaScript, HTML/CSS, SQL, Flask, FastAPI, Vue, Numpy, Pandas, Scikit-learn, Pytorch

Tools: Git/GitHub, Unix Shell, Linux, VS Code, MySQL, Tableau

EXPERIENCE

Football Chatbot Project | *Freelance Developer*

July 2024

- Enhanced web scraping robustness for retrieving player skills and team statistics from FBRef, improving data reliability and accuracy.
- Developed a new route for a tactical dashboard feature, enabling real time analysis and session planning for users.
- Contributed to a Dockerized architecture deployed on cloud server, integrating frontend, API, and action servers for scalable and modular deployment.

PROJECTS

Volatility Forecasting in India | *Python, Pandas, NumPy, SciPy, Statsmodels, Time Series Forecasting* May 2024

- Data Acquisition and ETL: Retrieved data from web APIs using HTTP requests; transformed and loaded data into a SQL database with custom Python classes.
- Modelling and API Development: Calculated asset volatility and developed a GARCH model to predict it; built a web API to serve model predictions.

Recipe Rating Prediction | *Pandas, NumPy, Scikit-learn, Matplotlib, Word Embedding Techinques* March 2024

- Data Preprocessing and Feature Engineering: Cleaned textual data handled missing values and used TF-IDF for text data transformation.
- Model Development and Handling Imbalanced Data: Built predictive models (Logistic Regression, Random Forest, Gradient Boosting, XGBoost) and addressed data imbalance using SMOTE and class weight adjustments.
- Model Evaluation: Conducted hyperparameter tuning and evaluated models using accuracy, precision, recall, F1-score, and k-fold cross-validation to achieve competitive accuracy.

TuneIn - Music Streaming Application | *HTML, CSS, Python, Flask, SQLAlchemy, Github* Oct. – Dec. 2023

- Music Streaming Platform: Developed a web application for streaming music with frontend and backend integration.
- User Authentication and Data Management: Implemented secure user authentication and managed user data using Flask-SQLAlchemy.

CERTIFICATIONS

Applied Data Science Lab | WorldQuant University | [link](#)

Jan. – May 2024

Sign-Up Flow Optimization Analysis with SQL and Tableau | 365DataScience | [link](#)

March 2024

SQL(Intermediate) | HackerRank | [link](#)

April 2024

Machine Learning Specialization by Stanford University & DeepLearning.AI | Coursera | [link](#)

Jan. 2024

Azure AI Fundamentals | Microsoft | [link](#)

May 2023