

YASH VASUDEVA

Machine Learning Engineer

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Profile

Data-driven Machine Learning Engineer skilled in building end-to-end ML pipelines, deploying predictive models, and performing statistical data analysis. Experienced in EDA, feature engineering, and model optimisation. Adept at transforming raw datasets into actionable insights that support business decision-making.

Technical Skills

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|--------------------|---|
| Languages | Python, SQL, C, C++ |
| ML / AI | Scikit-Learn, TensorFlow, PyTorch, NLP, Neural Networks (ANN, CNN, RNN, LSTM) |
| Data Tools | MySQL, PostgreSQL, Power BI, Excel, Tableau, Matplotlib, Pandas, NumPy |
| Development | Streamlit, Docker, Git, GitHub, API Development (FastAPI, Flask) |
| Automation | EDA Automation, Agentic AI |

Soft Skills

Problem Solving, Critical Thinking, Communication, Teamwork, Adaptability, Leadership, Self - Motivated, Eager to learn fast

Projects

Dataset Cleaner & Analyzer [\[Live\]](#)

- Developed an automated ML pipeline for dataset upload, preprocessing, EDA, visualization, model training, and prediction, reducing EDA time by 40%
- Integrated schema detection and intelligent preprocessing with automated model selection for classification and regression tasks
- Architected an Agentic AI workflow using Gemini 2.5 Flash Lite to autonomously interpret complex dataset schemas and generate context-aware cleaning recommendations

Multi-Stock Price Prediction [\[Live\]](#)

- Developed PRISM, a multi-stock price prediction platform using PyTorch LSTM to forecast 5-day price movements for 30 major U.S. equities by capturing inter-stock correlations via shared embeddings
- Engineered 26 financial features (technical indicators, returns, volatility) from 30-day sequences with yfinance integration and built a FastAPI backend with RESTful endpoints for real-time predictions.
- Designed and deployed a responsive web UI with interactive charts and an outstanding r^2 score of 0.98 with difference between test and train r^2 being 0.0849 only

JoSAA College Analysis & Predictor [\[Live\]](#)

- Analyzed past 5 years of data to uncover trends including closing ranks, paper hardness and college cutoffs.
- Engineered XGBoost models for opening & closing rank prediction with R^2 scores of 0.923 and 0.947 respectively.
- Presented a user interpretable way of understanding their chances into getting their dream college.

Experience

Technical Blog Writer (Namespace Community) March 2026 – Present

Part of the core team of a community with over 50,000+ members, contributing technical articles that help readers in understanding new technologies and start using them with beginner friendly projects. Responsibilities include:

- Researching and writing in-depth tutorials on emerging technologies
- Maintaining consistent technical accuracy and quality standards
- Ensuring consistent & user friendly Github repositories for readers

Job Simulations

Deloitte Australia Data Analytics Job Simulation on Forage - July 2025 [\[Github\]](#)

- Executed data analysis and forensic technology tasks on enterprise dataset
- Designed interactive Tableau dashboards for business performance reporting
- Used Excel to classify data and draw business conclusions

British Airways Data Science Job Simulation on Forage - January 2026 [\[Github\]](#)

- Completed a simulation focussing on how data science is a critical component of British Airways' success.
- Scraped and analyzed customer reviews using Python to identify key drivers of customer behavior
- Built a predictive model to understand factors that influence buying behaviour.

Courses & Certifications

5-Day AI Agents Intensive Course (Dec. 2025) – [Kaggle \(Google\)](#)
Fundamentals of Artificial Intelligence (Oct 2025) – [NPTEL \(IIT Guwahati\)](#)
Young Professional (Sep 2025) – [TCS iON](#)
Artificial Intelligence (July 2025) – [Reliance Foundation](#)

Education

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|---------------------|---|---------------|
| 2024–Present | B.Tech (IT), Bhagwan Parshuram Institute of Technology (GGSIPU) | 8.8/10 |
| 2023–2024 | Class XII (CBSE), S. D. Public School | 88% |
| 2021–2022 | Class X (CBSE), S. D. Public School | 91% |

Leadership

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| Junior Council (Namespace) Part of BPIT's largest tech community with 2000+ members. | Sep 2025 – Present |
| Joint Director of Elysium (Rotaract District 3012) Led district-level mental health initiatives by coordinating campaigns and managing outreach. | Jul 2025 – Present |
| Blood Donation Director (Rotaract Club of BPIT) Organised college-wide blood donation drives and managed collaborations with hospitals and NGOs. | May 2025 – Present |