

Ayush Goswami

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EDUCATION

Vellore Institute of Technology (VIT-C), BTech Computer Science Engineering

Sep 2022 – Jun 2026

- Relevant Coursework: OOPs, DSA, DBMS, OS, CN, AWS, Data Science and AI.
- Achievements: Semi-Finalist of BuildWithIndia Hackathon, Event Managers Club member, Toastmasters Club member

Navyug Convent Sr. Sec. School: Higher Secondary School Certificate: 83%

Mar 2022

Amity International School: Secondary School Certificate: 90%

Mar 2020

PROFESSIONAL EXPERIENCE

SiyaCloud Pvt. Ltd. Data Analysis Intern

Jun 2025

- Cleaned and pre-processed large sales datasets covering 15+ product categories, improving category-level performance tracking accuracy by 10% through actionable insights and rigorous data validation.
- Developed and contributed to demand forecasting models achieving over 85% accuracy by analysing historical purchase behaviour and seasonal market trends, supporting enhanced business planning.
- Leveraged Python and SQL to extract, manipulate, and analyse multi-dimensional datasets, enabling data-driven decision-making aligned with risk evaluation needs.
- Generated automated reports and visualizations using Tableau and Excel to communicate key sales performance metrics to stakeholders, facilitating real-time operational adjustments

PROJECTS

AI-Powered Customer Churn Prediction & Retention Dashboard ([Live Demo](#))

Oct 2025

- Developed an end-to-end machine learning pipeline to predict customer churn, identify key drivers, and recommend retention strategies.
- Built an interactive Streamlit dashboard showcasing churn probabilities, SHAP-based feature attributions, and actionable insights for business teams.
- Executed the complete data workflow: ETL, preprocessing, feature engineering, model training, and deployment-ready visualization.
- Model Performance: Accuracy 93%, Recall 99%, Precision 90%, F1-Score 94%.
- Tech Stack: Python, Pandas, Scikit-learn, XGBoost, SHAP, Streamlit.

AI-Powered Healthcare Symptom Assessment System ([Live Demo](#))

Oct 2025

- Designed and implemented an AI-driven healthcare assistant that analyzes user symptoms via conversational chat to assess possible medical conditions and severity.
- Integrated the Google Gemini API to enable contextual reasoning and dynamic question generation for accurate symptom triage and emergency detection.
- Developed end-to-end emergency detection logic using NLP pattern recognition and persistent UI alerts, minimizing false positives and ensuring real-time user safety. Engineered a Next.js full-stack application with optimized streaming responses, local chat persistence, and a responsive, accessible interface for scalable deployment.
- Customized the prompt and response framework for the Indian healthcare context, incorporating local emergency protocols (112) and culturally appropriate advice.
- Tech Stack: Next.js, TypeScript, Tailwind CSS, Google Gemini API, React Hooks, Vercel.

CERTIFICATIONS

- **Oracle Cloud Infrastructure 2025 Generative AI Professional (1Z0-1127-25), Oracle**
- **Machine Learning Specialization, Stanford University & DeepLearning.AI (Coursera)**
 - Supervised Machine Learning: Regression and Classification Certification
 - Advanced Learning Algorithms Certification
 - Unsupervised Learning, Recommenders, Reinforcement Learning Certification

Other Certifications:

- AWS APAC - Solutions Architecture Job Simulation, by Forage
- Career Essentials in Generative AI by Microsoft and LinkedIn
- Cognizant - Artificial Intelligence Job Simulation, by Forage
- Walmart USA - Advanced Software Engineering Job Simulation, by Forage
- DBMS course, byScaler

SKILLS

Data Science: Data Analysis, Modeling, Statistics, Quantitative Analysis, Regression, Hypothesis Testing

Machine Learning: Supervised, Unsupervised, Neural Networks, Reinforcement Learning

Programming: Python, SQL, Java

Software & Tools: Supabase, AWS, ETL, Data Pipeline Tools, Tableau, Power BI

Soft Skills: Communication, Critical Thinking, Problem Solving, Collaboration, Project Management, Time Management