

Vaishnav S Nair

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SKILLS

Languages: C++, Python, C, Java
Tools/Platforms: MongoDB, Tableau, MySQL, Excel, VS Code, Git
Soft Skills: Problem-Solving, Adaptability, Teamwork and Collaboration, Creative Thinking

PROJECTS

Second-Hand Fashion Advisory System | Python, Flask, React.js, Scikit-learn

- Developed an ML-powered web application for personalized pre-owned clothing discovery using content-based filtering, cosine similarity, and adaptive Like/Dislike learning.
- Built NLP-based smart search, similar-item recommendations, and a Linear Regression price prediction model achieving an R2 score of approximately 0.72.
- Processed and indexed 44,000 fashion products and integrated a full-stack architecture using Flask, React.js, PostgreSQL, and Docker for deployment.

PriceIQ – AI-Powered E-Commerce Price Optimization Platform | Python, FastAPI, React.js, XGBoost

- Developed an ML-powered platform that transforms raw e-commerce transaction data into actionable price recommendations through automated data cleaning, feature engineering, and predictive modelling.
- Implemented and compared Linear Regression and Gradient Boosting/XGBoost models using 541,909 retail transactions, targeting $R^2 \geq 0.80$ for price prediction.
- Built a full-stack analytics dashboard with revenue optimization, demand elasticity analysis, what-if simulations, and interactive visualizations using React, Plotly, and Chart.js.

Beek – AI-Powered E-Book Reader | React, AI/ML, EPUB

- Developed an interactive e-book reader integrating AI-powered tools to enhance reading, exploration, and engagement with EPUB books.
- Built a Compendium feature that extracts and organizes book characters, turning character discovery into an interactive and gamified experience.
- Implemented a Gamified Achievements system to reward reading progress and user interactions, making the overall reading experience more engaging.

ACHIEVEMENTS

Ideathon Hackathon 2025

Lovely Professional University, Phagwara

- Secured a Top 3 position in the Ideathon Hackathon, competing against teams across the university.
- Developed a Smart Traffic Management System for Electric Vehicles.
- Leveraged real-time data processing to optimise EV routing, reduce traffic congestion, and enable priority signalling for electric vehicle fleets.

TRAINING

Centre for Professional Enhancement, Lovely Professional University Jun '26 – Jul '26

Data Analytics Essentials with AI: SQL, Python, Power BI, Tableau and Excel

- Completed hands-on training in data analytics and visualization using SQL, Python, Excel, Power BI, and Tableau.
- Applied analytical techniques to process, explore, and interpret datasets for extracting meaningful insights.
- Developed practical skills in leveraging AI-assisted data analytics tools and creating data-driven reports and visualizations.

CERTIFICATES

Database and SQL | Infosys Springboard Sep '26

Database Management System Part - 1 | Infosys Springboard Aug '26

Introduction to AI & ML | Skillera Apr '25

EDUCATION

Lovely Professional University Phagwara, Punjab
Bachelor of Technology in Computer Science and Engineering; CGPA: 8.65 Aug 2024 – Present

Bharatheeya Vidyapeedom Central School
Intermediate; 88% 2023
Matriculation; 95% 2021