PARTH KHARADE

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SUMMARY

Electronics and Telecommunication Engineer with hands-on experience in building intelligent software systems, back-end services and cloud-deployed applications for real-world use cases. Strong understanding of system design, data pipeline and applied AI integration. Demonstrates a solid grasp of engineering fundamentals with a focus of building reliable, production ready solutions.

EDUCATION

Bachelor of Engineering Vishwakarma Institute of Technology, Pune — December 2021 – June 2025
CGPA: 8.72

HSC Shri Balaji Madhyamik Vidyalaya and Junior College, Ichalkaranji — June 2019 – August 2021
XII Percentage: 93%

CBSE Yashwant International School, Kodoli — June 2009 – March 2019
X Percentage: 86%

SKILLS

Technical Skills	Python, JAVA, SQL, LLM's, RAG, Fast API, React.js, NLP, Docker, CI/CD pipelines, Git.
Soft Skills	Problem Solving, Leadership, Effective Presentation, Project Management, Communication.
Languages	English, Hindi, Marathi.

PROJECTS

JurisMind: AI Legal Insight Engine — June 2025 - Dec 2025

- Engineered a Retrieval Augmented Generation (RAG) System capable of querying 500+ legal contracts. Connected to Pinecone Vector Database to handle over 50,000 text chunks with the help of Python in backend.
- Integrated Meta's Llama 3 model (via Groq) to create concise complex legal data into simple summaries. Implemented a strict citation system where the AI links back to the exact source file to ensure accuracy and reduce hallucinations.
- In order to provide real-time legal citations and full-text contract retrieval, a responsive React interface supported by effective FastAPI endpoints was designed.
- Executed secure API handling, CI/CD pipelines, and a production-ready Full Stack application with the help of Vercel and Render.

ExpenseLens — Feb 2025- June 2025

- Built a responsive Web Application using React and Java Spring Boot, then Dockerized it and deployed using Vercel and Render.
- Designed a RESTful API integrated with PostgreSQL for managing transactions data.
- Implemented a modern User Interface featuring dynamic Pie Charts visualization to provide real-time expenditure analysis and cateogry-wise analysis.
- Designed an AI Assistant Financial Advisor which provides individual budget analysis, CSV file export, and grouping of Transaction History.

Retail Inventory and Sales Analytics Database Jun 2024- Dec 2024

- Designed a PostgreSQL database to manage retail transactions. Wrote PL/pgSQL database triggers to automate inventory management ensuring stock levels update instantly with every sale or cancellation.
- Built optimized SQL views to aggregate sales records into real-time reports.
- Created a Power BI dashboard and linked it to the database to visualize sales trends and automatically identify low-stock items for restocking

Smart Crop Yield Prediction System Feb 2022 - June 2022

- Designed a Python System to process raw historical weather and soil data, caluculating precise season rainfall metrics to ensure high quality model training.
- Implemented an Ensemble learning pipeline using XGBoost and Random Forest to accurately predict crop yield based on various environment factors
- Developed a user-friendly Streamlit application that allows users to input farm details and see instant yield estimates.

PUBLICATIONS

Smart Vehicle with Cognitive Abilities IEEE Xplore, 2024

Farm Watch: AI-Enhanced Animal Detection for Farm Protection European Journal of Forest Engineering