

Vaibhav Dave

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EDUCATION

GSFC University <i>Bachelor of Technology in Computer Science and Engineering</i>	Vadodara, Gujarat <i>July 2021 – June 2025</i>
Kokilaben Dhirubhai Ambani Reliance Foundation School <i>Senior Secondary Education (PCM with IP) — 81.6%</i>	Jamnagar, Gujarat <i>June 2020 – July 2021</i>
Kokilaben Dhirubhai Ambani Reliance Foundation School <i>Secondary Education — 74.8%</i>	Jamnagar, Gujarat <i>June 2018 – May 2019</i>

EXPERIENCE

Software Developer Intern <i>Promact Global</i>	Feb 2025 – Apr 2025 <i>Vadodara, Gujarat</i>
<ul style="list-style-type: none">– Created Mentor Mentee Application's web platform during internship at Promact Global, leveraging React.js to build a responsive, component based UI and FastAPI to develop high performance APIs, reducing server response time by 25% and supporting seamless user interactions.– Engineered an AI driven matching system using Python and scikit-learn within the FastAPI backend, achieving 90% accuracy in pairing mentors and mentees based on skills and interests.– Designed and implemented role specific dashboards with React.js, improving navigation efficiency by 20%, and utilized PostgreSQL and MongoDB for robust data handling.	
Database Engineer Intern <i>Reliance Industries</i>	May 2024 – July 2024 <i>Jamnagar, Gujarat</i>
<ul style="list-style-type: none">– Developed SQL-based database solutions for the Data Center Management System, optimizing storage and retrieval and overall system efficiency.– Automated data acquisition & cleaning pipelines in Python, guaranteeing high quality downstream datasets.– Performed query tuning to accelerate data retrieval, enabling faster exploration and reducing response time by 30%.	

PROJECTS

Explainable AI-Based Glaucoma Detection <i>Python, TensorFlow, CNN, LIME, LLM, React, FastAPI, MongoDB</i>
<ul style="list-style-type: none">– Fine-tuned VGG16 for multi-modal glaucoma detection; achieved 94% AUC with transfer learning, LIME explainability and LLM-based natural language justification.– Delivered a full stack medical web app (React + FastAPI) for real time screening with heatmaps and explanatory text.– MongoDB backend enables continual model improvement via user feedback capture.
E-Commerce Customer Segmentation & Insights <i>Python, RFM, K-Means, Tableau</i>
<ul style="list-style-type: none">– Analyzed transactional data with RFM scoring and K-means clustering to surface high value customer segments.– Increased marketing campaign alignment by 20% through segment-specific loyalty and re-engagement strategies.– Built interactive Tableau dashboards that visualized purchase trends and revenue patterns for stakeholders.

TECHNICAL SKILLS

Languages: Python, SQL, Java, Bash/Shell, JavaScript, TypeScript, HTML/CSS
Frameworks: Django, FastAPI, React.js, Node.js, TensorFlow, Keras, scikit-learn
Tools: Git, GitHub, Docker, Shell Scripting, Tableau, MongoDB, PostgreSQL
Libraries: NumPy, Pandas, Matplotlib, OpenCV, SQLAlchemy, Pydantic, LIME
Spoken Languages: English, Hindi, Gujarati

CERTIFICATIONS

Google Data Analytics Certificate
IBM Back-End Development Certificate
DeepLearning.AI TensorFlow Developer Certificate