

# Vaibhav Dave

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## EDUCATION

### GSFC University

*Bachelor of Technology in Computer Science and Engineering*

Vadodara, Gujarat

July 2021 – June 2025

### Kokilaben Dhirubhai Ambani Reliance Foundation School

*Senior Secondary Education (PCM with IP) — 81.6%*

Jamnagar, Gujarat

June 2020 – July 2021

### Kokilaben Dhirubhai Ambani Reliance Foundation School

*Secondary Education — 74.8%*

Jamnagar, Gujarat

June 2018 – May 2019

## EXPERIENCE

### Software Developer Intern

*Promact Global*

Feb 2025 – Apr 2025

Vadodara, Gujarat

- 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

*Reliance Industries*

May 2024 – July 2024

Jamnagar, Gujarat

- 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 | *Python, TensorFlow, CNN, LIME, LLM, React, FastAPI, MongoDB*

- 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 | *Python, RFM, K-Means, Tableau*

- 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