Archana Prasad Nair

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Education

Vellore Institute of Technology, Bhopal   **Sep. 2022 – May 2026**
Bachelor of Technology in Computer Science; Minor in Cloud Computing and Automation   *Bhopal, Madhya Pradesh*
CGPA: 9.09/10.00

Technical Skills

- C++
- MySQL
- Python
- AWS
- Data Structures

Experience

Gen AI Intern   **Oct. 2025 – Present**
Prodigal AI Technologies PVT. LTD.   *Remote*

- Leading a team to develop an Intelligent Video Enhancement Engine using a multi-stage AI pipeline.
- Utilizing OpenCV, FFmpeg, YOLOv8, Mixtral-8x7B, DialoGPT, and LLaVA models for object detection, emotion analysis, and semantic captioning.
- Integrating modules for attention scoring and automated processing to transform raw video into a professionally edited final product.

Projects

CollabGlow Code Editor and White Board | *React, Node.js, TypeScript*   **Aug. 2025 – Sept. 2025**

- Created an interactive web application integrating a live code editor (supporting Python, C++, C, Java, JavaScript) with a collaborative digital whiteboard, featuring undo/redo and a rich color palette.
- Implemented split-view functionality, enabling simultaneous coding and sketching of algorithms or flowcharts within a single tab.
- Integrated features like real-time code execution, syntax highlighting, and a customizable drawing toolset (pen, rectangle, circle) with adjustable stroke width and color options.

NomNom Food Ordering Chatbot | *FastAPI, MySQL, Natural Language Processing*   **May 2025 – July 2025**

- Developed an AI-powered food ordering chatbot using Dialogflow for natural language understanding and order processing.
- Implemented backend using FastAPI with MySQL database integration for order tracking and management.
- Built a responsive frontend with order cart functionality and real-time order status updates.

BlissBloom | *Natural Language Processing, Machine Learning*   **Jan. 2024 – May 2024**

- Created an emotion detection website with an ML model trained to identify text emotions, displaying predictions with emoticons and confidence levels via an Altair chart.
- Integrated a personalized recommendation system with mood enhancement suggestions (e.g., exercise, yoga, movies, music).

Leadership & Extracurricular

Cloud Zone Club   **Feb. 2024 – Present**
Design Team Lead   *VIT Bhopal*

- Led "Code Quest" gaming/quiz competition (100+ participants) for AdVITya '24 and '25, managing promotions and operations.

Smart India Hackathon   **August 2024**
PanStamp   *VIT Bhopal*

- Qualified in the Internal Round of Smart India Hackathon 2024 at VIT Bhopal, and was among the waitlisted teams.

Additional

- **Languages:** English, Hindi, Malayalam, German
- **Certifications:**
    - Oracle Certified Professional: Java SE 11 Developer