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: 9.00/10.00

Technical Skills

- C++
- Java
- Python
- MySQL
- Data Structures

Projects

NomNom Food Ordering Chatbot | *FastAPI, MySQL, NLP*   **June 2025 – June 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.

Indian Sign Language Project | *MediaPipe, Flask, OpenCV*   **May 2025 – June 2025**
- Executed a real-time ISL (Indian Sign Language) classifier using a Random Forest model trained on hand landmark data, achieving high accuracy in letter prediction.
- Constructed a Flask-based web app to process images and webcam feeds, displaying detected signs with a bounding box visualization.

Sahay – Disaster Management Platform | *ML, Flask*   **July 2024 – Apr. 2025**
- Engineered a Random Forest Regressor to predict monthly rainfall using historical data (1901-2017), attaining 97.5% R^2 and 98.5% accuracy.
- Designed data pipelines for preprocessing and visualizing rainfall trends (histograms, line plots) to identify patterns for disaster preparedness.

BlissBloom | *NLP, ML*   **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

Cloud Zone Club   **Feb. 2024 – Present**
Design Team Lead   *VIT Bhopal*
- Led "Code Quest" gaming/quiz competition (100+ participants) for AdVITya '24 and '25, handling promotions and operations.

Extracurricular

National Youth Parliament Scheme   **April 2024**
Finance Minister   *VIT Bhopal*
- Selected for the Youth Parliament, demonstrated public speaking, leadership, and analytical skills in a simulated parliamentary environment.

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