

ARCHANA PRASAD NAIR

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Education

Vellore Institute of Technology, Bhopal

Sep. 2022 – May 2026

Bachelor of Technology in Computer Science; Minors in Cloud Computing and Automation

Bhopal, Madhya Pradesh

CGPA: 9.00/10.00

Technical Skills

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

Projects

BlissBloom | *NLP, ML*

Jan. 2024 – May 2024

- Developed 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).

Sahay – Disaster Management Platform | *ML, Flask*

Jul. 2024 – Apr. 2025

- Engineered a Random Forest Regressor to predict monthly rainfall using historical data (1901-2017), achieving 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.

Indian Sign Language Vision | *MediaPipe, Flask, OpenCV*

May 2025 – Jun. 2025

- Implemented a real-time ISL classifier using Random Forest, coached on hand landmark data for high-accuracy letter prediction.
- Built a Flask-based web app to process images and webcam feeds, displaying detected signs with bounding box visualization.

Leadership

Cloud Zone Club

Feb 2024 – Present

Design Team Lead

VIT Bhopal

- Led the design and execution of "Code Quest," a gaming and quiz competition with over 100 participants, for AdVITYa (college tech fest) in both 2024 and 2025, which included creating promotional materials and coordinating event operations.

Extracurricular

National Youth Parliament Scheme

April 2024

Finance Minister

VIT Bhopal

- Selected in 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; developed a comprehensive online platform for philatelists to browse, order, and track philatelic materials, request cancellations, and engage with the philately community, featuring secure payments and admin management tools.

Languages

- English
- Malayalam
- Hindi
- German