

Archana Prasad Nair

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Education

VIT Bhopal University

BTech

Major in Computer Science; Minors in Cloud Computing and Automation
Cumulative GPA: 9.00/10

Bhopal, Madhya Pradesh

Expected May 2026

12th Standard

Jaipuria School

CBSE Percentage: 82%

Navi Mumbai, Maharashtra

June 2022

10th Standard

Bal Bharati Public School

CBSE Percentage: 89.8%

Navi Mumbai, Maharashtra

April 2020

Projects

Emotion detection website and recommendation system

Jan 2024 - May 2024

- Delivered an emotion recognition website, using a machine learning algorithm to interpret emotions from input text, showing results with emoticons and confidence levels via an Altair chart.
- Integrated a personalized recommendation system offering mood enhancement suggestions such as exercise routines, yoga practices, and curated movie and music selections.

Sahay - Disaster Management Platform

July 2024 – April 2025

- Engineered features and trained a Random Forest Regressor to predict monthly rainfall using historical data (1901–2017), achieving 97.5% R^2 score and 98.5% accuracy.
- Designed data pipelines for preprocessing and visualizing rainfall trends (histograms, line plots) to identify patterns and anomalies, enabling actionable insights for disaster preparedness.

Sign Language Detection Model

May 2024 – June 2024

- Developed a real-time Indian Sign Language (ISL) classifier using Random Forest, trained on hand landmark data to predict numbers with high accuracy.
- Built a Flask-based web application to process user-uploaded images and live webcam feeds, displaying detected signs with bounding box visualisation for improved accessibility.

Extracurricular

National Youth Parliament Scheme

April 2024

- Selected as Finance Minister in the Youth Parliament, demonstrated public speaking, leadership, and analytical skills in a simulated parliamentary environment.

Smart India Hackathon

August 2024

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

Activities

Cloud Zone Club

VIT Bhopal

Design Team Lead

Feb 2024

- 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.

ADDITIONAL

Technical Skills: Proficient in Python, C++, SQL, JAVA, Problem Solving

Languages: Fluent in English, Hindi; Conversational Proficiency in German and Malayalam

Certifications & Training: Introduction to Data Structures & Algorithms in Java (LinkedIn Learning) - Mar 2023

Online Course in HTML, CSS, and JavaScript for Web Developers (Coursera) - Dec 2023

AWS Cloud Practitioner Essentials (Coursera) - April 2025

Data Science with Python (iamNeo) - April 2025

Java Development on Oracle cloud (Oracle, Course completion certificate)- May 2025