

ANANYA SINGH

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EDUCATION

VIT Bhopal University

Bachelor of Technology in Computer Science

Sep 2022 - Sep 2026

CGPA: 8.52

Sunbeam School Mughalsarai

CBSE XII

July 2021

Percentage: 90.6

Sunbeam School Mughalsarai

CBSE X

May 2019

Percentage: 94.8

RELEVANT COURSEWORK

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- OOPS
- Operating System
- Database Management
- Computer Networks
- Computer Architecture

PROJECTS

PREP AI | *Python, Flask, HTML, CSS, JavaScript, Bootstrap*

January 2025

- Developed an AI-powered data science toolkit that combines automated data preprocessing, machine learning model training, and dashboard generation capabilities.
- Built automated data preprocessing pipeline handling CSV/Excel files with intelligent missing value imputation, outlier detection (IQR/Z-score), and categorical encoding (label/one-hot)
- Created interactive analytics dashboard with KPI generation and multi-format export capabilities (PDF, CSV, PNG).
- Designed responsive Bootstrap 5 UI with consistent navigation across workflows and accessibility features (ARIA labels, keyboard navigation)

MENTAL STRESS DETECTION SYSTEM | *Python, Scikit-learn, csv*

March 2025

- Built a complete system to load and process EEG data from MATLAB files for 40 subjects across 4 experimental conditions.
- Generated a structured dataset of 480 samples with 32 alpha-to-beta power ratio features per sample and processing all experimental trials and storing results in CSV format
- Deployed three classification algorithms (Decision Tree, Gaussian Naive Bayes, and SVM).
- Implemented detailed model assessment using accuracy, precision, recall, and F1-score metrics with weighted averaging to evaluate stress detection performance.

NICHE NEST | *HTML/CSS, JavaScript, ReactJS, Node.JS, MongoDB, Express.JS*

January 2025

- Developed a web-based job portal platform that facilitates connections between job employers and job seekers.
- Created an interface where employers post job descriptions while job seekers browse and filter available positions
- Implemented Cloudinary which stores and processes files for resume uploading and matching.
- Used Cron Jobs for Background task scheduling for refreshing newsletter in 24hr. interval.

TECHNICAL SKILLS

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL

Frameworks: NodeJS, React JS, Pandas, NumPy, Django, Flask

Developer Tools: Git, MySQL, SQLite, Excel, PowerPoint

Platforms: Visual Studio Code, IntelliJ IDEA, Cygwin, Jupyter Notebook, AWS

Soft Skills: Event Management, Comprehensive Writing, Public Speaking, Analytical Thinking

LEADERSHIP / EXTRACURRICULAR

National Service Scheme(NSS)

Volunteer

Dec 2022 – Jan 2024

VIT Bhopal University

- Delivered lessons in basic English and Mathematics to 20+ underprivileged children inside university premise.
- Scripted and performed in 3 street plays (nukkad natak) on social issues like gender equality and sanitation
- Actively participated in 5+ community mobilization and cleanliness drives as part of the Swachh Bharat Abhiyan.