

Suhani Thakur

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Education

VIT Bhopal University, Bhopal, Madhya Pradesh

B.Tech

Expected May 2026

Major in Computer Science and Engineering spe in AIML

CGPA: 9.05/10

12th Standard

Jul 2022

Bhavans BP Vidya Mandir, Civil Lines, Nagpur, Maharashtra

Percent: 93.2%

10th Standard

Jul 2020

St. Vincent Pallotti School, Nagpur, Maharashtra

Percent: 97.5%

Technical skills

Python, Java, Machine learning, Data analysis, Natural Language Processing, Qlik Sense, SQL, Git, TensorFlow, Roboflow, Dataiku

Projects

Speed Operation Services (SOS) (ML project)

Aug 2024- Apr 2025

- Built an AI-based emergency response system to detect fire and medical emergencies using YOLOv8 and CNN models.
- Annotated 3,500+ images in Roboflow across 4 severity classes: High, Medium, Low, and Fake; trained MobileNet classifier achieving 91% accuracy.
- Managed dataset creation, model training, and evaluation; final model reported precision, recall and F1-score of 0.91.
- Technology: Python, MobileNet, Roboflow, CNN, YOLOv8, Deep Learning

Smart Waste Management System (ML and IoT)

Jan 2025- Dec 2025

- Built the AI-powered waste classification module for an IoT-based system targeting smart waste disposal in Chennai.
- Created a custom dataset from Indian sources and used transfer learning (MobileNet, ResNet) to classify Organic, Recyclable, and Hazardous waste with 95% accuracy.
- Enabled real-time guidance for citizens and improved bin-level decision-making through AI integration with sensor data.
- Technology: Python, CNN, Transfer Learning, Image Classification, ESP32, MQ137, HC-SR04, Express.js, WebSocket

ZenZone Bot (ML and NLP)

Mar 2024- Apr 2024

- Led development of a mental health chatbot for Indian adolescents, addressing anxiety, depression, PTSD, ADHD, and eating disorders.
- Utilized NLP models (keyword recognition, sentiment analysis, intent recognition) with 85% accuracy in symptom identification.
- Integrated government APIs to streamline access to mental health resources, reducing response time by 30%.
- Technology: Python, Machine Learning, Natural Language Processing, Flask, Government APIs

Internships

Data Science Intern- Sabudh Foundation

Jan 2025- present

- Selected among 200 students across India for a prestigious internship in the Data Science Division
- Engaged in hands-on modules in Python, NLP, ML, DL, Dataiku, and DSA strengthening technical foundations.

Extra-curricular Activities

Google Student Developers Club (GDSC) Core Member

Jan 24- Jan 25

- Machine Learning domain.
- Coordinated a workshop for beginners in Machine Learning, attended by 600 students.
- Organized Google Summer of Code event; initiated open-source projects and made foundational commits to guide participant contributions.

Pi Mathematics Society

Mar 24- Aug 24

- Volunteer teacher and content writer
- Delivered personalised guidance and support to over 50 students in math courses

Certifications & Training:

- IBM Data Analysis with Python-Coursera Dec 2023-Jan 2024
- Applied Machine Learning in Python -Coursera Dec 2023
- Linear Algebra for Machine Learning and Data Science-Coursera Oct 2023-Nov 2023

Languages: Fluent in Hindi, English; Conversational Proficiency in Marathi