Ved:

Vedant Marodkar

B.Tech - 3rd Year Data Science and Artificial Intelligence Indian Institute of Technology, Bhilai

2022-Present

CGPA: 8.84

2020-2022

2009-2020

EDUCATION

•INDIAN INSTITUTE OF TECHNOLOGY, Bhilai

B. Tech - Data Science and Artificial Intelligence (May 2026 - Estimated Graduation)

•Dr. Babasaheb Ambedkar College, Nagpur

Class XII Percentage: 92.3

•T.B.R.A.N.'s Mundle English Medium School, Nagpur

Class X Percentage: 97.2

PROJECTS

•Dynamic Grocery Delivery Route Optimizer Using Q-Learning

Optimized delivery routes using reinforcement learning. (GitHub Repository)

- Developed a Q-learning model to optimize multi-source grocery delivery routes, reducing both cost and distance.
- Tools: Python, NumPy, MatplotLib, itertools, Seaborn, Pandas

•Multilingual Assistive Model for Visually Impaired Users

 $Created\ an\ inference-based\ model\ for\ visually\ impaired\ users,\ integrating\ image\ captioning,\ translation,\ and\ text-to-speech.\ (GitHub)$

- Integrated BLIP for image captioning, IndicTrans2 for multilingual translation, and gTTS and Facebook's MMS-TTS for audio narration.
- Tools: Pytorch, Transformers, MarianMT, gTTS

Plant Disease Detection using CNN

Trained a CNN model on a 55GB dataset of plant images. (GitHub Repository)

- Trained a deep CNN on 20+ plant species' images, deploying the model on IIT Bhilai's Big Data clusters.
- Frameworks: Hadoop HDFS, Apache Spark, BigData Cluster
- Tools: Pyspark, Tensorflow, Keras, OpenCV

•Breaking the Silence: Rape Statistics in India

Performed an in-depth analysis of rape statistics in India. (GitHub Repository)

- Conducted EDA on rape data from NCRB and Twitter, producing visualizations and insights.
- Tools: Python, Seaborn, Pandas, NumPy, plotly.express, MatplotLib

SKILLS

Languages: C/C++, Python, HTML, CSS, Latex

ML Libraries, Frameworks & Architectures: Tensorflow, Huggingface, Roboflow, XGBoost, Apache Spark, Transformers , scikit-learn, scipy, , nltk, spacy, Stanza, NumPy, Pandas, Keras, Seaborn, Pandas, NumPy, plotly.express, MatplotLib, BeautifulSoup

Database & Deployments: Linux, Google Cloud, AWS, Docker.

Softwares & Tools: Visual Studio Code, Git, Jupyter, Google Colab, Matlab, Amazon SageMaker, Docker, GitHub Coursework: Architecture for Management of Large Dataset, Machine Learning, Natural Language processing, BigData Lab, Artificial Intelligence, Computer Network, Discrete Mathematics-I, Operations Research, Data Structures, Algorithms-I, Data Analysis and Visualisation, Probability and Statistics, Calculus, Linear Algebra Soft Skills: Teamwork, Communication, Strong work ethic, Problem-Solving, Time Management

Positions of Responsibility

•Core Member, Data Science and Artificial Intelligence Club, IIT Bhilai

11/2022 - 04/2023

•Member, Epsilon, Robotics Club of IIT Bhilai

11/2022 - 04/2023

Courses Certifications