

# Arihant Bhandari

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## EDUCATION

### VIT Bhopal University

B.Tech. in Computer Science and Engineering — CGPA: 9.21/10

• Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Digital Logic Design, Cloud Computing, Artificial Intelligence and Machine Learning

• Academic Achievements: Consistently ranked in the top 5 percent of the class

### JG International School

12<sup>th</sup> Standard — Percentage: 85.2/100

### The New Tulip International School

10<sup>th</sup> Standard — Percentage: 85.6/100

Bhopal, Madhya Pradesh

Oct 2022 – Present

Ahmedabad, Gujarat

Jun 2020 – Jul 2021

Ahmedabad, Gujarat

Apr 2018 – May 2019

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C++, C
- **Deep Learning Frameworks:** TensorFlow, Keras, PyTorch
- **Languages:** Fluent in Hindi and English

## PROJECTS

### Speech Sentiment Analysis

Deep Learning Project

• Engineered a Convolutional Neural Network model achieving 94% accuracy in classifying emotional intonation of 250 speech samples into Positive, Negative, and Neutral categories.

• Implemented advanced audio processing techniques to extract Melspectrogram features, enhancing model performance by 15%.

• Leveraged TensorFlow and Keras to optimize model architecture, reducing training time by 30% while maintaining high accuracy.

### Metabolic Syndrome Prediction

Machine Learning Project

• Developed and validated 15+ machine learning models for Metabolic Syndrome risk classification, processing over 2,400 patient records with 15 features.

• Achieved 90% prediction accuracy using ensemble methods, potentially improving early diagnosis rates for at-risk patients.

• Utilized feature importance analysis to identify key health indicators, providing actionable insights for medical professionals.

### Home Credit - Credit Risk Prediction

Machine Learning Project

• Engineered a credit default classification model processing 1.5 million data points, accurately identifying 50,000 defaulters from 150,000 high-risk cases in a Kaggle Competition.

• Used advanced feature engineering techniques, improving model performance by 20%.

• Utilized ensemble learning methods to combine multiple models, enhancing prediction robustness and reducing false positives by 15%.

Jun 2024 – Jun 2024

Python, TensorFlow, Keras

May 2024 – Jun 2024

Python, Scikit-learn, NumPy, Pandas

Feb 2024 – May 2024

Python, Scikit-learn, NumPy, Pandas

## ACTIVITIES

### GirlScript Summer of Code Contributor

Open Source

• Ranked 24th out of 20,000 participants (top 0.12%) and finished 82nd in the final rankings with a score of 1395.

• Contributed 25 pull requests to 20+ Machine Learning and Deep Learning projects, demonstrating proficiency in collaborative development and version control.

• Earned 7 badges for outstanding contributions and problem-solving skills in various project categories.

### ML Core Team Member, GDSC VIT Bhopal

Bhopal, MP

• Organized and led 3+ Machine Learning and Deep Learning workshops, mentoring over 2000 peers.

• Co-organized major tech events including "Summer of Open Source", "HashTech", and "WinterFest ML Talks", attracting 5000+ participants.

• **IBM AI Engineer Professional Certificate:** Completed 6-course specialization covering machine learning, deep learning, and AI applications.

• **Postman API Fundamentals Student Expert Certificate:** Demonstrated proficiency in API testing and development using Postman.

May 2024 – Aug 2024

Dec 2023 – Aug 2024