

# Astubh Mishra

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## EDUCATION

### Army Institute of Technology

Bachelor of Engineering in Computer Science, CGPA: 8.18/10

Pune, Maharashtra

Aug 2023 – Present

### Shiv Jyoti International School

Class 12th: 80.5%

Kota, Rajasthan

Jun 2022

## PROJECTS

### ArcadeRush | [HTML](#), [CSS](#), [JavaScript](#), [Django](#) | [Link](#)

Jan 2025

- 15 Online Games such as Sudoku, Minesweeper, Tower of Hanoi using HTML, CSS and JavaScript
- Tested by 150+ users.

### Network Intrusion Detection | [Python](#), [Wireshark](#), [NumPy](#), [Pandas](#), [Scikit-Learn](#), [Seaborn](#) | [Link](#)

Nov 2024 - Jan 2025

- Monitors and detects malicious activities or policy violations in network traffic to enhance cybersecurity.
- Anomaly detection, classification algorithms, network traffic analysis.

### Email Spam Detection Model | [Python](#), [Google APIs](#), [Scikit-learn](#), [Pandas](#), [NumPy](#), [Streamlit](#) | [Link](#)

Sep 2024 - Oct 2024

- Built a spam detection model using NLP and machine learning, achieving an accuracy of 89.9%.
- Implemented feature extraction and data processing with Python, Google APIs, and Scikit-learn.

### Coalmine Lifetime Detection System | [Python](#), [Matplotlib](#), [NumPy](#), [Pandas](#), [Scikit-Learn](#) | [Link](#)

Sep 2024

- Predicts the safe excavation depth, potential structural weaknesses, and hazardous conditions (e.g., high methane levels, high temperatures) using real-time sensor data.
- Threshold-based anomaly detection, sensor data analysis, predictive modeling.

### Anomaly Detection in Coalmines | [Python](#), [Random-Forest](#), [NumPy](#), [Pandas](#), [Scikit-Learn](#) | [Link](#)

Sep 2024

- Detects anomalies in coal mine structures and rooftops to ensure safety by analyzing sensor data for unusual patterns.
- Anomaly detection, Random Forest algorithm, real-time data analysis.

### Facial Emotion Recognition System | [Python](#), [Numpy](#), [Pandas](#), [OpenCV](#), [Tensorflow](#) | [Link](#)

Apr 2024 - May 2024

- Identifies and classifies human emotions (e.g., happy, sad, angry) from facial expressions using image data.
- Computer vision, Convolutional Neural Networks (CNNs), image preprocessing, emotion classification.

### Sudoku Solver | [Python](#), [Streamlit](#) | [Link](#)

Feb 2024 - Mar 2024

- Created a Python-based Sudoku Solver and Generator with a Tkinter GUI.
- Features interactive puzzle creation, solution solving, and visual representation.
- Incorporated Data Structure and Algorithm concepts like backtracking, constraint propagation, DFS, greedy heuristics, hashing, bit-masking, and graph representation.

## ACHIEVEMENTS

### Competitive Programming

- Solved 350+ coding problems across various topics of Data Structures and Algorithms on Leetcode. | [Profile](#)

### Smart India Hackathon 2023 Winner

Dec 2023

- Awarded in the Disaster Management category for developing a web-based application that predicts explosion threat zones in oil and gas industries using a TensorFlow-based regression model.

## SKILLS

**Languages:** Python, C++, JavaScript, HTML, CSS

**Frameworks:** Tensorflow, Pytorch, Streamlit, Tkinter

**Developer Tools:** Git, Docker, LaTeX, Google Cloud Platform, VS Code, Visual Studio, Blender, GraphViz, Canva, Colab

**Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn, GoogleAPIClient

**Concepts:** Data Structures and Algorithms, Object-Oriented Programming, Natural Language Processing, Machine Learning, Deep Learning

**Soft-Skills:** Effective Communication, Team Collaboration, Adaptability, Creativity, Critical Thinking, Growth Mindset

## PROGRAMMES

### IDE Boot-camp Phase III by AICTE and MIC

May 2024

- Showcased our team's SIH-winning project to industry leaders from the Wadhvani Foundation and the Chairman of the Ministry of Education.

## ROLE OF RESPONSIBILITY

### Joint Secretary at Information Security And Digital Forensics Club

Oct 2024 – Jun 2025

- Conducted various Capture the Flag Events as the Technical Lead.
- Attended Various seminars on Network Intrusion and Safety.