

Niyati Issar

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EDUCATION

Apeejay International School

10th, 93%

Delhi, New Delhi

Aug. 2018 – May 2021

Apeejay International School

12th, 87%

Delhi, New Delhi

Aug. 2018 – May 2021

VIT Bhopal University

BTech CSE (Core), 8.73 CGPA

Bhopal, Madhya Pradesh

Aug. 2022–Present

ACHIEVEMENTS & CERTIFICATIONS

Google - Bits and Bytes of Computer Networking

Coursera

Dec 2023

[Verify Here](#)

Scalar C++ Certification

Scalar

2023

NPTEL - Cloud Computing

NPTEL

Jan – Apr 2024

Certification ID: NPTEL24CS17S352901057

PROJECTS

TRI-MODAL AUTONOMOUS RESCUE SYSTEM (TARS) — Python, MATLAB, Machine Learning, Robotics — Oct 2024 – Present

- Developed an autonomous robotic system using YOLO for real-time human detection.
- Simulated energy consumption, buoyancy, and movement using Python libraries.
- Integrated sensor data (LIDAR, radar, cameras) for dynamic obstacle detection.
- Achieved a 25% reduction in response time through optimized algorithms.

SMART HOME AUTOMATION SYSTEM — Python, JavaScript, C++, Swift — Sep 2023 – Dec 2023

- Built a smart home automation system using Arduino and Bluetooth technology.
- Automated appliance control using HC-06, LDR, and DHT11 sensors.
- Enhanced energy efficiency with a 20% reduction in consumption.
- Demonstrated the project to 50+ faculty and peers.

HATE SPEECH DETECTION MODEL — Python, Numpy, Sci-Kit Learn, TensorFlow, PyTorch, Matplotlib — May 2018 – May 2020

- Implemented 7 machine learning models for hate speech detection.
- Developed a hybrid model (BERT + GCN) with improved performance metrics.
- Analyzed model accuracy across 6 hate speech categories.
- Increased classification accuracy by 15% over traditional methods.

TECHNICAL SKILLS

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

Technical Subjects: Theory Of Computation, Data Structures and Algorithms, Database Management System, Operating Systems, Computer Networks

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, GitHub Actions

Libraries: pandas, NumPy, Matplotlib, Seaborn

Software Development: OOP, Agile Methodologies, CI/CD, API Development

Cloud DevOps: AWS (Basics), Docker

Databases: PostgreSQL, MySQL, Data Warehousing