

# NAMAN SHARMA

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## Education

<b>VIT Bhopal University</b> (Expected May 2026) B.Tech Major in Computer Science and Engineering	Bhopal, Madhya Pradesh Cumulative GPA: 8.16/10
<b>MPS International, Jaipur</b> (Jul 2021) 12 <sup>th</sup> Standard- CBSE BOARD	Percentage: 79.60%
<b>MPS International, Jaipur</b> (Jul 2019) 10 <sup>th</sup> Standard- CBSE(Central Board of Secondary Education)	Percentage: 87.4%

## Projects

### Network Intrusion Detection System (NIDS) – Backend Development :

- Developed the backend for an ML-based NIDS to detect cyber threats like DoS, DDoS, and unauthorised access.
- Implemented machine learning models (Random Forest, SVM, Neural Networks) to classify network traffic using NSL-KDD/CICIDS2017 datasets.
- Built a Flask-based API to process network traffic data and return intrusion detection results.
- Integrated real-time packet analysis using network sniffing tools and optimised data processing pipelines.
- Ensured efficient data handling and model deployment for seamless backend performance.

**Technologies Used :** Python, Flask, Scikit-learn, TensorFlow, Pandas, NumPy, Wireshark

### URL Shortener – Backend Development:


- Developed a URL Shortener using Flask and SQLite, enabling efficient URL shortening and redirection.
- Implemented a hashing algorithm to generate unique short URLs and mapped them to original links in the database.
- Designed a Flask API to handle URL creation, storage, and redirection requests.
- Optimised database queries for fast lookups and ensured proper error handling for invalid URLs.

**Technologies Used:** Python, Flask, SQLite, SQLAlchemy, REST API

## Skills

- **Languages** - C++, Python, HTML, CSS, JavaScript , SQL , DSA in C++
- **Tools** - Pandas, SQL, Excel

## Notable Certifications

- Bits and Bytes of computer networking By Coursera: 
- CEHv12 By ECH Council: [Certificate](#)
- Matlab Onramp: [Certificate](#)