

NAMAN SEHWAL

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Education

Indian Institute Of Technology, Madras, India

2021 - 2025

- B.S. in Data Science and Applications | CGPA: **7.34**

Relevant Coursework:

Statistical Methods for Data Science, Machine Learning & Data Mining, Data Visualization, Probability & Statistics, Programming (Python & Java), Application Development, DBMS, System Commands, Algorithms (Data Structures).

Skills

Programming Languages: Python, JavaScript, Shell Scripting, Java

Frameworks & Libraries: Vue.js, Flask, Chart.js, Celery

Databases: MongoDB, MySQL, Redis, SQLite, Cassandra (Azure)

Tools: Git, Docker, Jupyter, Anaconda

Other: Machine Learning, Data Analysis, Cybersecurity

Work Experience

Machine Learning Research Intern | *iNeuron.ai*

Mar 2024 – Apr 2024

- Developed a machine learning solution for detecting phishing domains, enhancing cybersecurity measures.
- Implemented algorithms to predict whether domains are real or malicious, improving detection accuracy by 20%.

Projects

Larder Vault Project | [Link](#)

A comprehensive e-commerce platform built with Vue.js for the front end and Python-Flask for the back end.

- Technologies Used: Python, Vue.js, HTML, Bootstrap, SQLite, Flask, Redis, Chart.js, Git.
- Designed and developed a feature-rich web application using Vue.js and Flask.
- Implemented JWT token authentication to ensure secure access to the application.
- Incorporated advanced functionalities, including background task processing using Celery.
- Utilized Redis for efficient data caching, enhancing overall performance.

Phishing URL Detection Project | [Link](#)

Developed a machine learning solution to identify phishing domains, enhancing cybersecurity.

- Trained a Random Forest model on a dataset of 70,000 samples with 112 features to classify malicious domains with high accuracy.
- Leveraged Cassandra database (Azure) for secure storage of historical transactions and phishing URLs.
- Implemented Python logging library for comprehensive logging of project actions within a dedicated GitHub repository

Business Data Management Project:

Led data analysis project at Tara Internet Services, boosting growth through dynamic pricing and customer acquisition (KYC).

- Analyzed customer behavior and recharge process delays, recommending process improvements and resource optimization.
- Delivered actionable insights including technological investments and continuous feedback mechanisms to ensure service quality.

Certifications

MongoDB Certified (Python Developer)

Hands-on experience building Python applications leveraging MongoDB for data modeling, CRUD operations, data analysis (aggregation), and performance optimization (indexing).

Data Mining | IIT Kharagpur

Learned data preprocessing and analysis techniques. Developed proficiency in data visualization for effective communication of insights gained.

Computer Networks And Internet Protocol | IIT - Kharagpur

Learned comprehensive computer networking principles including TCP/IP protocol stack, application layer services, transport layer primitives, IP routing, and data link layer services.

Academic and Extracurricular Achievements

- **Kaggle Contributor** | Earned this recognition for actively sharing knowledge and helping the data science community.
- **Datanest 4.0 Finalist** | Competition in statistics organized by the Department of Statistics at Ramjas College.
- **Secured Rank-1** | Codechef Programming Competition conducted by IIT Madras BS