Shikhar Sharma

Gurugram, India | shikhar.sharma@st.niituniversity.in | [LinkedIn](#) | [Portfolio](#)

Objective

I am a final-year B. Tech Computer Science student with hands-on experience in machine learning and data analysis. I have worked on projects involving predictive modelling, multi-modal ML, and system analysis, gaining practical skills in Python and supervised learning algorithms and currently exploring deep learning algorithms. I aspire to build a career in Business Intelligence and Analytics, leveraging data-driven insights to support decision-making and develop impactful solutions.

Projects

Hybrid Host-Based Intrusion Detection System (HIDS)

- Used Python, system call analysis, and machine learning classifiers to build a hybrid intrusion detection system for Windows hosts.
- Tested models on attack vs. normal system call datasets using accuracy and confusion matrices.
- Learned binary classification, data preprocessing, model evaluation, and system-level feature engineering

Real-Time Speech Translation System (Ongoing, Team Project)

- Collaborating on the development of a cloud-native microservices application for real-time speech-to-text translation.
- Implementing audio ingestion, ASR (Whisper), and multilingual translation services using Hugging Face Transformers.
- Deploying and scaling services on Docker + Kubernetes, with API Gateway and OAuth 2.0 authentication for secure communication.
- Designing and testing low-latency pipelines (<2s) with WebSocket streaming, focusing on system reliability, scalability, and performance optimization.

Personality Predictor Based on Movies (Ongoing, Personal Project)

- Using Python and supervised learning classifiers to predict personality traits based on movie preferences from TMDB Top 5000 Movies dataset.
- Currently testing model performance across multiple classifiers and evaluation metrics.
- Gaining hands-on experience in data cleaning, feature engineering, dataset preparation, and algorithm evaluation.

Education

B. Tech, Computer Science and Engineering with Specialization in Artificial Intelligence, NIIT University	**2022 to 2026**

CGPA-7.94
Relevant Modules: Deep Learning and Generative AI, Machine Learning, Artificial Intelligence

XII, Delhi Public School, Sector 45, Gurgaon (CBSE)	**2022**
X, Delhi Public School, Sector 45, Gurgaon (CBSE)	**2020**

Skills

- **Data Analysis & Business Intelligence:** Power BI (Basic), Tableau (Basic), SQL (Intermediate), Data Visualization (Matplotlib, Seaborn – Basic), Storytelling & Presentation
- **Programming & Data Handling:** Python (Intermediate), Pandas (Intermediate), NumPy (Intermediate), scikit-learn (Intermediate).

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- **Machine Learning & Analytics:** Supervised & Unsupervised Learning, Random Forest, Ensemble Methods
- **Tools & Environments:** VS Code (Intermediate), Python IDLE (Primarily for ML projects)
- **Foundational Knowledge:** HTML (Intermediate), Jupyter Notebook, Google Colab
- **Languages:** English (Fluent), Hindi (Native), German (A2 Level)

Certifications

- Microsoft Power BI Data Analyst Professional Certificate, ONGOING
- Python For Data Science, AI and Development by IBM-Coursera, June 2024

Positions of Responsibility

- **Volunteer, Event Curation Team – SiNUsoid Tech Fest 2022, NIIT University**
  Assisted in planning and organizing various technical events during the university's annual fest.
- **Volunteer – Convocation 2022, NIIT University**
  Supported coordination and smooth execution of the convocation ceremony.
- **Volunteer – Nanhi Chhan Event 2022, NIIT University**
  Helped organize a social initiative event on campus.
- **Volunteer – Camp Future 2023, NIIT University**
  Contributed to management and execution of Camp Future 2023, at NIIT University.
- **Participant – Dance Competition, NDIM Cultural Fest 2023**
  Represented NIIT University in inter-college cultural competition.
- **Participant – Dance Competition, LMNIT Cultural Fest 2024**
  Showcased cultural engagement and teamwork through stage performances.
- **Coordinator – Flashmob, NIIT University Cultural Fest 2024**
  Led coordination of performers and event execution for the cultural flashmob.