

Nitin Kumar Mishra

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EDUCATION

VIT Bhopal University (2022 – 2026)

B.Tech in Computer Science Engineering, specialization in AI/ML, CGPA: 8.27

Bhopal, Madhya Pradesh

Sainik school Bhubneshwar (2022)

12th standard, Percentage : 75%

Bhubaneshwar, Orrisa

PROJECTS

Voice-Activated Form Assistant for Secure Banking

(<https://github.com/HumourSpeech/VAFA>) | Python, HuggingFace Transformers, scikit-learn, Regex | March-May 2025

- Designed and deployed multilingual **NLP** pipeline for banking form automation, reducing **manual** data entry effort significantly. Integrated **Web Speech API** for real-time speech-to-text and translation (Hindi/Odia/English to English).
- Used **DistilBERT** to classify spoken text into entity labels (e.g., “Name”, “Amount”) based on context. Designed a lightweight **Regex engine** to accurately extract entity values (e.g., ₹ amounts, 10-digit phone numbers) from raw transcriptions, post-classification.
- Deployed end-to-end pipeline using **Streamlit**, enabling real-time voice interaction for **500+** test users during beta testing with a **F1-score > 0.98**.

ChurnDefender – Customer Churn Prediction App

(<https://github.com/HumourSpeech/ChurnDefender>) | Python, TensorFlow, Streamlit, scikit-learn | Jan-Mar 2025

- Developed a **Deep Learning** model to predict customer churn using a trained **neural network** built with **TensorFlow/Keras**. Applied preprocessing: label-encoded gender, one-hot encoded geography, and scaled inputs using **StandardScaler**.
- Integrated real-time user input features including sliders, number fields, and dropdowns for dynamic prediction and loaded trained models and preprocessing pipelines via **Pickle** for efficient inference without retraining.
- Designed a Streamlit app with real-time inputs (sliders, fields, dropdowns) and deployed it on Streamlit Cloud for interactive user predictions and deployed the app on **Streamlit Cloud** for public access and live interaction, achieving ~ **85%** accuracy on test data

Network Security System

(<https://github.com/HumourSpeech/Network-Security-System>) | Python, TensorFlow, Keras, Streamlit | May-June 2025

- Developed a **modular** Python based network security system leveraging machine learning for phishing detection, threat analysis, and anomaly detection using structured data pipelines.
- Integrated **MongoDB** and **YAML-driven configurations** for scalable data ingestion, validation, and storage, ensuring flexibility, reproducibility, and cloud-ready deployment.
- Designed **robust exception handling and centralized logging** for error traceability, with Docker support enabling secure, containerized deployment and future real-time monitoring.

SKILLS

Technical skills : Machine Learning , Deep Learning , Natural Language Processing, C++, Python, MySQL.

Languages : Hindi , English

CERTIFICATIONS

Complete Data Science,ML,NLP,DL bootcamp – *Udemy*

Privacy and Security in Online Social media – *NPTEL*

HTML, CSS, and JavaScript for web *developers* – *Coursera*

ACHIEVEMENTS

- Bagged Silver + Elite certificate in NPTEL Privacy and Security in Online Social media examination.
- Completed 160 days of coding challenge on GeeksForGeeks.
- Active on Codeforces with a rating of 450, practicing problem-solving and algorithmic thinking.

EXTRA-CURRICULARS

- **Led the Republic Day Parade** as Parade Commander, showcasing leadership, discipline, and organizational skills in coordinating and guiding the contingent..
- Maintained a rapid rating of 1150 on Chess.com and a blitz rating of 1350+ on Lichess.
- Attended five days long AI-ML bootcamp, organized by CINE-VAC CDAC