Yatharth Nagpal

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CAREER SUMMARY

Computer Science undergraduate with expertise in web development, **machine learning**, and full-stack programming. Proficient in Python, C++, Java, and ML frameworks. Achievements include **top 5%** in **NPTEL Cloud Computing** and IBM **AI Engineering** certification. Experienced in innovative projects like **fraud detection** and **sentiment analysis**.

ACADEMIC DETAILS

Degree/ Examination	GPA/%age	Institute	Year
B.Tech. Computer Science	8.15	Vellore Institute of Technology, Bhopal	2022- 2026 (exp)
Class XII (CBSE)	88%	Siddhartha Public School, Delhi	2021
Class X (CBSE)	84%	RPS Public School, Haryana	2019

Languages- Fluent in English and Hindi; basic proficiency in French.

SCHOLASTIC ACHIEVEMENTS

- **NPTEL Certification:** Ranked in the **top 5%** of students in the **Cloud Computing** course.
- **IBM Certifications:** Completed **AI Engineering Specialization** and **Machine Learning** certification with honors.
- **Competitive Programming:** Solved over **300** problems on **GeeksforGeeks** and **LeetCode**, showcasing problem-solving skills and algorithmic thinking.
- **Workshops:** Participated in an **Arduino Workshop** conducted by **IIT Bombay**, gaining hands-on experience in microcontroller programming.
- **Academic Excellence:** Consistently ranked among the top 10% of the batch in multiple semesters.
- **Mathematical Olympiad:** Secured top percentile in the regional round of a National Mathematics Olympiad.
- **Personal Project: Reverse-engineered** and ported an **OS** for a different mobile device, demonstrating advanced technical expertise and innovation.
- **Hackathons:** Participated in university-level hackathons, including designing and deploying a real-time web-based application.

PROJECTS IN ACADEMICS

Fake News Detection: **(April 2023 - June 2023)**
- Developed a comprehensive pipeline for identifying **fake news** articles by training and evaluating multiple **machine learning** models.
- Employed Python libraries like **Pandas** for data manipulation, **Scikit-learn** for preprocessing and model selection, and **TensorFlow** for deep learning.

Credit Card Fraud Detection: **(Nov 2023 - Jan 2024)**
- Developed a **machine learning** system to identify **fraudulent credit card** transactions using historical transaction data.
- Utilized Python libraries like **Pandas** for preprocessing, **Scikit-learn** for feature engineering, and **TensorFlow** for building classification models.

Sentiment Analysis: **(April 2024)**
- Conducted sentiment analysis on textual data using state-of-the-art models from **HuggingFace's** transformer library.
- Experimented with different architectures, including **CNN**, **LSTM**, and **BiLSTM**, to classify text into **7 distinct emotional categories**.

E-Commerce Fraud Detection: **(Oct 2024 – Nov 2024)**
- Implemented predictive models for detecting fraudulent transactions in **e-commerce** platforms.
- Focused on advanced machine learning techniques like **Random Forest** and **Gradient Boosting** (**XGBoost, LightGBM**) for accurate fraud detection.

Sales Rating Analysis: (Oct 2024)
- Developed a sales rating prediction model using Python, leveraging regression algorithms, data preprocessing, and evaluation metrics like RMSE.
- Visualized sales trends with Matplotlib, enhancing insights; utilized Pandas, NumPy, and Scikit-learn for efficient data analysis and modeling.

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, Java, C#
- **Frameworks and Tools:** TensorFlow, PyTorch, Scikit-learn
- **Web Development:** Full-stack (HTML, CSS, JavaScript, PHP)
- **Machine Learning:** Expertise in building and deploying ML models
- **Database Management:** SQL, Pandas, NumPy