SHRUT JAIN

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EDUCATION

Indian Institute of Information Technology Nagpur (IIIT Nagpur)   **Aug 2023- June 2027**
Bachelor of Technology in Computer Science Engineering - 8.98 CGPA (End of 3rd Sem)
Pune University : Jog college of Sci. Comm. & Arts
XII Percentage: 89.7%   **Jun 2022- June 2023**

PROJECTS

Credit Card Defaultee Prediction │ Github
- Developed a credit risk prediction model using **XGBoost**, achieving **95% F1-score** and **0.95 ROC-AUC**, after dimensionality reduction from **122 to 20 features** through extensive feature engineering.
- Addressed class imbalance with **SMOTE**, and engineered explainable features like **debt-to-income ratio** and **mobility index**, ensuring ethical ML by excluding sensitive attributes.

Spam Message Detection- WebApp │ Github
- Built a **spam classification model** using NLP techniques (**tokenization, lemmatization, TF-IDF**) and trained XGBoost & Random Forest, reaching **0.96 F1-score** and **0.95 ROC-AUC**.
- Designed an interactive **Streamlit** frontend for real-time message prediction, deployed on **Streamlit Cloud**

Book Recommendation System │ Github
- Created a **collaborative filtering** recommendation engine using **cosine similarity** to generate personalized suggestions.
- Built a **Flask web app** with dynamic search, HTML/CSS interface, and Amazon redirection for top-rated books.

TECHNICAL SKILLS

- **Languages:** Python, C, C++, SQL, JavaScript, HTML, CSS
- **Developer Tools**: VS Code, Git, GitHub, Google Colab, Jupyter Notebooks, Tableau, Power BI
- **Technologies:** Data Analysis, Machine Learning, Deep Learning Fundamentals, Data Visualization, Web Scraping, REST APIs
- **Framework /Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Streamlit, Flask, MongoDB, MySQL, React Native
- Data Structures, Operating System, Object Oriented Programming, Computer Architecture and Organization.

POSITIONS OF RESPONSIBILITY

Club Head │ CRISPR, IIITN
- Promoted to Club Lead at CRISPR, IIIT Nagpur, leading a 40+ member team and organizing three hackathons focused on Generative AI and Data Science.
- Handled event coordination, participant engagement, and directed multiple projects, ensuring smooth execution and fostering teamwork for successful outcomes.

CERTIFICATES & ACHIEVEMENTS

- Supervised Machine Learning by DeepLearning.ai
- Advanced Learning Algorithms by DeepLearning.ai
- Solved 120+ problems on LeetCode and GeeksforGeeks.
- Finalist - Impact-Metrics - Data Analytics competition organized by IIT(BHU) Varanasi
- 4th - StatHack - ML competition organized by IIT Goa