

Tushar Kumar Gautam

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EDUCATION

Indian Institute of Technology, Roorkee

Bachelor of Technology in Electrical Engineering

Uttarakhand, India

2022 – Present

EXPERIENCE

Data Scientist

PocketFM

May 2025 – July 2025

Remote

- Analyzed large-scale user behavior data to identify early churn indicators and enable targeted retention strategies.
- Segmented 2M+ users into behavior-based cohorts to identify high-risk groups and enhance personalization efforts.
- Evaluated A/B experiments by comparing session, impression, and click metrics to drive data-driven product decisions.
- Built an NLP pipeline for 50K+ user reviews to extract sentiment and uncover key product issues for feature improvements.

PROJECTS

Full-Stack NLP Intelligence Platform | *Python, Flask, spacy, GroqAPI* (GitHub)

Jan 2026 - Jan 2026

- * Engineered a secure Flask/Python web app with session-based authentication and modular backend architecture.
- * Implemented a robust user management system featuring protected routing and secure JSON data persistence.
- * Developed a real-time NLP inference pipeline integrating spaCy and TextBlob for instant text analysis.
- * Architected a multi-tier system decoupling authentication, NLP processing, and UI for enhanced maintainability.

AI Resume Analyzer & Job Matcher | *Python, ML, Flask, Streamlit* (GitHub)

Dec 2025 – Dec 2025

- * Built an NLP system comparing 800+ resumes against 200+ job descriptions using TF-IDF and cosine similarity.
- * Used spaCy NER to extract skill entities across 20+ domains, enabling structured candidate profiling.
- * Designed ranking logic prioritizing job-specific attributes to improve screening consistency and throughput.
- * Built REST APIs and a Streamlit dashboard to deliver real-time insights and batch evaluation.

Credit Card Default Prediction | *Python, numpy, pandas, matplotlib, seaborn* (GitHub)

Sep 2024 – Sep 2024

- * Developed an end-to-end credit card default prediction model with EDA, preprocessing, and feature engineering.
- * Handled class imbalance using SMOTE and compared ML algorithms to identify the best model.
- * Optimized the model using the F2-score, selecting Random Forest for high recall.
- * Built a complete ML pipeline with threshold tuning and validation on unseen data.

TECHNICAL SKILLS

Programming: Python, SQL, C++

ML & Deep Learning: PyTorch, TensorFlow, Scikit-learn

NLP & GenAI: Transformers, LangChain, HuggingFace, RAG

MLOps & CI/CD: Model Versioning, Experiment Tracking, Pipelines, Docker, GitHub Actions

Backend & Serving: FastAPI, Flask, Streamlit

Data & Tools: Pandas, NumPy, Matplotlib, Seaborn, Git, Jupyter, VS Code