Shreyank Gopalakrishna Bhat

International Institute of Information Technology, Bangalore
9606900656 shreyank.bhat@iiitb.ac.in linkedin.com/in/shreyank-bhat-116381282 github.com/ShreyankGopal

Education

International Institute of Information Technology, Bangalore **Oct 2022 – May 2027**
Integrated Masters of Technology *CGPA 3.32/4.0*

Experience

Plasmid MSME **Dec 2024 – Feb 2025**
Machine Learning Intern *Bangalore, Karnataka*

- Trained and evaluated a machine learning model on 284,000+ anonymized transactions from a Kaggle dataset to detect fraudulent online payments.
- Performed EDA and engineered features to address data imbalance; trained models like Logistic Regression, Random Forest, and XGBoost, achieving up to 98% ROC-AUC score.
- Improved fraud recall by 3.5× after applying SMOTE oversampling, enhancing model performance on rare class (fraud cases comprising 0.17% of data).

Projects

FireTV Movie Recommender System | *React, Express, Node, WebRTC, BERT* **Jun 2025 - Jul 2025**

- Pioneered AI-driven content personalization for Fire TV by analyzing user mood, viewing behavior, and time-of-day signals, resulting in a **30%** increase in user engagement with recommended content.
- Performed batch-wise embedding updates using BERT and integrated vector search with Pinecone, achieving a Hit Rate of **87%** for personalized content recommendations.
- Designed social viewing features including synchronized watch parties and in-app video chat. Enhanced user engagement and retention through seamless, personalized, and shared OTT experiences.

Persona Aware PDF Summarizer | *Sentence Transformers, Random Forests* **Jul 2025 - Jul 2025**

- Built a 7 stage structural + semantic analysis pipeline achieving 93% heading detection accuracy and compliant with 10s runtime for 50 page PDFs.
- Developed a persona driven section extractive summarization engine that ranked multi document PDF sections using semantic embeddings, achieving 88% relevance for targeted users.
- Delivered an offline ready solution processing 7 PDFs/minute with multilingual support under strict 1GB model size limits.

Distributed Text Processing and Big Data Analytics | *Hadoop, MapReduce* **Mar 2025 – Mar 2025**

- Developed MapReduce pipelines simulating collaborative editing across Wikipedia snapshots using Hadoop, processing over **10,000+** documents with multi reducer parallelism.
- Optimized word cooccurrence and T-IDF scoring using pairs and stripes approaches, achieving **20–30%** reduction in runtime via optimized tokenization and stemming.
- Improved distributed job performance using local aggregation, reducing execution time from 38 mins to under 15 minutes for cooccurrence computations.

Technical Skills

Languages: Python, Java, C, C++
Frameworks and Tools: Linux, GitHub, React, Node, Express, Hadoop, Git, Maven
Databases & File Systems: MongoDB, MySQL, HDFS
Key Concepts: Data Structure Algorithms, Database Design, RESTful API, Distributed Systems, MapReduce, WebRTC

Relevant Coursework

- Data Structures and Algorithms
- Software Engineering
- Database Management
- Machine Learning
- Computer Networks
- Operating systems
- NoSQL Systems
- Data Visualisation
- Automata Theory

Achievements/Extracurriculars

- Led a team of three to achieve a top 130 position out of **50,000+** participants in **Amazon HackOn 2025**, a premier national-level hackathon.
- Secured **99.05** percentile (AIR **8710**) in JEE Mains with a score of **200/300**, ranking in the top 0.95% nationally.
- Qualified for Round 2 – **AlgoUniversity Technology Fellowship Program** Ranked in the top **4000** out of **20,000+** applicants based on algorithmic coding performance.
- Led inter- and intra-college fitness events as part of the **IIITB Gym Committee**.
- Part of the IIITB football team that won **1st** place in an inter-college tournament.