

SHRAYANSH JAKAR

Indian Institute of Technology Kanpur, 2023

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EDUCATION

B.Tech, Indian Institute of Technology (IIT) Kanpur **CPI - 7.2**

2019 - 2023

ACHIEVEMENTS

- **Winner, Hackathon at NIT Hamirpur (2022)** - Achieved first place in a national coding competition.
- **Solved 500+ problems** on programming platforms like [InterviewBit](#), [LeetCode](#), and [GeeksForGeeks](#).
- **Secured AIR 4996** in Joint Entrance Examination, 2019 out of 1.2 million aspirants across India.

EXPERIENCE

Data Analyst

August 2023 – Present

Oculosense

Gurugram, India

- **Enhanced Visual Recognition:** Leveraged Python, TensorFlow, Scikit-Learn, PySpark and Databricks to develop and deploy ML models, boosting Drishti's object detection accuracy by 25%.
- **Backend Infrastructure & User API Development:** Built and deployed a RESTful API using Flask, hosted on AWS EC 2, to facilitate communication between user devices and our backend services.
- **Boosted Database Performance:** Administered MySQL and PostgreSQL, optimizing queries and indexing, and developing ETL processes, reducing query execution time from 120ms to 80ms.
- **Facilitated Data-Driven Decisions:** Created reports and visualizations using advanced data analytics tools (Tableau, Power BI, Microsoft Excel), reducing the decision-making cycle from 7 days to 4 days.

Backend Development Intern

May 2022 – July 2022

UnOrg Vendor Solutions

*Online**

- **Developed Voice Search Feature:** Implemented a voice search feature using Django, machine learning, and NLP, enhancing user engagement by 30% and search accuracy by 40%.
- **Processed Voice Data:** Collected and curated diverse voice samples, applied NLP techniques for feature extraction, reducing query response time from 2.5s to 1.5s, ensuring efficient data processing.
- **Optimized System Performance:** Conducted extensive testing and backend optimization, leveraging AWS services and performance monitoring tools, improving efficiency by 20% and halving server load times.

PROJECTS

Credit Card Fraud Detection | Programming Club, IITK

- Developed ML models to classify fraudulent transactions in an imbalanced dataset with 0.17% fraud cases.
- Implemented techniques like Random Undersampling, SMOTE, and Near-Miss to address class imbalance.
- Trained models including Logistic Regression, XGBoost, and K-NN, achieving a recall of 0.91.

SKILLS

Programming Languages: C/C++, Python, SQL, Java, Javascript

Technical Skills: Object-Oriented Programming, Data Structures and Algorithms, Data Analytics, DataScience Machine Learning, Statistical Analysis, Tableau, Microsoft Excel, Django, DBMS, PyTorch

Frameworks/Others: Linux, Git, Github, LaTeX, Visual Studio, Anaconda, Google Colab

LEADERSHIP

- Directed operations as the **Secretary of Startup Development team** at Entrepreneurship Cell, IIT Kanpur.