Sanskar Srivastava

sanskar.ss2011@gmail.com • (949)-992-6627 • linkedin.com/in/sansriv • github.com/Vis-3

EDUCATION

Indiana University Bloomington | Bloomington, IN
Master's In Data Science | GPA – 3.95   **Aug 2024 - Present**
Relevant Courses: Applied Machine Learning, Applied Algorithms, Introduction to Statistics, Data Mining, Advanced Database, Big Data principles. Introduction to LLM's, Elements of AI, Introduction to Bioinformatics
Vellore Institute of Technology| Chennai, Tamil Nadu, India
B. Tech, Computer Science and Engineering | GPA - 8.7   **Aug 2020 – May 2024**
Relevant Courses: Machine Learning, DSA, Data Visualization, Python, Web Mining, Database management

TECHNICAL SKILLS

Programming: Python, R, C++, Java, HTML, SQL, CSS, JS, React
Libraries and Frameworks: PyTorch, scikit-learn, Pandas, NumPy, Flask, Matplotlib, Seaborn
Tools & Platforms: Tableau, PowerBI, Zoho, Docker, Git, Gunicorn, Vercel, Render, MLflow, Prometheus, Grafana, MongoDB, SQL, Microsoft Office (Excel and PowerPoint)
ML & AI: Machine Learning, Deep Learning, NLP, MLOps, Data Analysis, Computer Vision, Data Visualization
Certifications: IBM certified Artificial Intelligence Analyst Certificate ID: 3d72c4009db04e43b85ec2f3d46e512f

WORK EXPERIENCE

Research Assistant at Soda Labs   **Sep 2025 - Present**
- Working on extending a computational model to map cognitive beliefs and behavioral cues onto a belief network aiming to better understand the underlying cognitive structure of mental health conditions like depression.

PROJECTS

Data Visualization | Customer Insights Dashboard
- Designed and deployed an interactive Tableau dashboard to monitor customer experience metrics from airline reviews.
- Delivered actionable insights for marketing and operations by integrating geographic and sentiment data into KPI breakdowns, maps, and trend plots.
- Dashboard: https://public.tableau.com/app/profile/sanskar.srivastava7236/viz/BritishAirwaysReviewAnalysis_175589952513 00/Dashboard1

Smart-FL | Bone Marrow Smear Classification
- Smart-FL | Bone Marrow Smear Classification Engineered a preprocessing engine with extensive options for missing value imputation, feature scaling, and categorical encoding using **Pandas** and **scikit-learn**.
- Utilized a ResNet-18 backbone for a meta-learning algorithm based on prototypical networks, testing the system on a mimicked federated environment across four clients with diverse data distributions.
- Utilized a ResNet-18 backbone for a meta-learning algorithm based on prototypical networks, testing the system on a mimicked federated environment across four clients with diverse data distributions

Tula: AI-Driven Skill Verification Platform for Fair Hiring
- Designed and built an AI assessment system using **multi-agent RAG**, **Sentence-Transformers**, and **Google Gemini**, enabling automated skill extraction from resumes and generation of adaptive ML/Python/SQL assessments based on 10 hiring manager's insights.
- Engineered the backend intelligence with **Python, FastAPI, Milvus, and MinIO**, creating scalable pipelines for vector retrieval, document processing, and real-time candidate ranking within a containerized **Docker** environment.
- Replaced keyword-based screening with performance-based evaluation, demonstrating a **40% reduction in hiring time** during prototype testing.

Semantic Analysis of Reddit Data
- Used **Reddit's Api** and PRAW to scrape comments associated with specific topics of interests.
- Performed **sentiment and emotional analysis** based on user comments to understand the underlying feelings associated with the selected topic. Sentiments were categorized as positive, negative and neutral while emotions were categorized as happiness, anger, sadness, fear, love and surprise.
- Used a pretrained **classifier** from **hugging face** to generate labels for the data and trained a **stacking ensemble** classifier which achieved an F1 score of **96.8**%.