

SUMMARY

Passionate Master's student in Business Analytics & AI, fuelled by curiosity, creativity, and a learn–fail–adapt–deliver approach. Skilled in LLM engineering, computer vision architectures, and data-driven product development, with a strong belief in building solutions through collaboration and iteration. A problem-solver at heart who finds rhythm not only in models and code, but also in music and on the soccer field.

EDUCATION

The University of Texas at Dallas, Master of Science, Business Analytics and Artificial Intelligence May 2025
 Related courses: NLP, Deep Learning, Database Foundation, AWS Cloud Analytics, Prescriptive Analytics, Machine Learning

SRM Institute of Science and Technology, Bachelor of Technology, Computer Science and Engineering June 2023
 Related courses: Data Mining, Data Structures and Algorithm, Artificial Intelligence, Data Science, Big Data Visualization

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, C++ **Database Tools:** MySQL, Oracle DB, MongoDB, Microsoft Access

Cloud Services: Microsoft Azure, Amazon Web Services **Big Data Tools:** Apache Hadoop, Apache Hive, Apache Spark, Big Query, Trifacta

Visualization Tools: PowerBI, Tableau, Advanced Excel **Other Relevant Skills:** Leadership, Problem-Solving, Fact-Finder

Tech Skills: Exploratory Data Analysis, Data Visualization, Regression and Classification Machine Learning, Generative AI (Text and Vision Models)

Certifications: Google Data Analyst, Machine Learning by Stanford University, Deep Learning by OneForthLabs

PROFESSIONAL ACHIEVEMENTS & LEADERSHIP EXPERIENCES:

2nd Runners-up, 8th Annual Business Analytics Symposium by UT Arlington and HPE, Arlington, Texas February 2024

- Developed and implemented a scalable Streamlit-based solution to automate personal RAG systems, integrating PyPDFLoader, OpenAI Embeddings, and ChromaDB to enable seamless processing and retrieval of up to five large PDFs concurrently.
- These can enhance document management efficiency for mid-sized industrial clients, delivering a streamlined, technology-enabled alternative to manual storage and accelerating access to critical information.

4th Finish, 48 hours Provoke Generative AI Hackathon, Dallas, Texas April 2024

- Designed and deployed a dynamic Flask and HTML-based web interface enabling real-time UI uploads and change reviews, integrated with a GenAI model pipeline leveraging Gemini-Pro-Vision LLM, TensorFlow, Keras, OpenCV, and VGG16 CNN for automated UI audits.
- Helps to enable rapid detection and reporting of formatting discrepancies between developer drafts and reference templates, significantly accelerating UI testing cycles and enhancing design quality assurance for enterprise clients.

Team Lead, University funded Inhouse Project, SRM University, India September 2023

- Led cross-functional team to implement end-to-end multilingual real-time sentiment analysis solution, leveraging PyAudio for audio capture, GoogleTrans API for Hindi/Spanish translation, and optimized NLP algorithms for sentiment classification.
- Delivered scalable, data-driven system with 85%+ accuracy on university-funded initiative, implementing agile methodology to meet key stakeholder requirements while ensuring robust performance metrics.

IEEE Research Publication, Blockchain driven Evidence Management System, DOI: 10.1109/AISP57993.2023.10134799

- Proposed an innovative research framework and led the development of a blockchain-enabled decentralized evidence storage solution, leveraging Ethereum smart contracts, IPFS, Node.js APIs, and a dynamic front-end to ensure secure, tamper-proof digital evidence management.

IEEE Research Publication, Customer Churn Prediction using NN and SMOTE-ENN for Data Sampling, DOI: 10.1109/AISP57993.2023.10134827

- Proposed a scalable machine learning solution and validated a high-precision Neural Network solution using SMOTE-ENN, achieving 94% accuracy in telecom churn prediction across Indian and Asian markets, and surpassing traditional Decision Tree model performance.

PROFESSIONAL EXPERIENCE

MastekInc, Data Science Intern, Dallas, Texas June 2024– August 2024

- Co-ordinated deployment of semantic search engine using Elser & Sentence-Transformers to convert text into vectors, then stored in finetuned and optimized vector DBs (Elasticsearch, Pinecone, HNSWlib) to achieve 78% semantic relevance score and 0.65x faster result display speed.
- Delivered LLM-powered interactive search app via Streamlit with autocorrection, enhancing search relevance and boosting user engagement (13% CTR, 45s dwell time). Managed 10K+ unstructured data rows with advanced NLP, ensuring robust system performance and resilience.

ResoluteAI, Data Analyst Intern, Bangalore, India April 2022 – July 2022

- Delivered real-time occupancy monitoring for healthcare client by integrating surveillance data with SQL Server and Power BI, enabling automated capacity alerts and improving patient flow efficiency by 20%.
- Orchestrated end-to-end defect detection for an industrial client by labelling 5K+ images via Labellmg and fine-tuning YOLOv3 (Darknet-53), achieving 93% accuracy and driving significant improvement in production quality and operational efficiency.

EXTRA-CURRICULAR ACHIEVEMENTS

Runners-up – U16 Subroto Soccer Cup

Lead Singer and Guitarist – High School Musical band

2nd Position – Open State Dance Competition (Gujarat, India)

ADDITIONAL EXPERIENCE:

Research Team Member – Data Science Club (SRM University)

Organizing Team – Directorate of Student Affairs (SRM University)