

Aakash Ramasubramanian

aakash9@illinois.edu ❖ (+1) 217 904 0998 ❖ LinkedIn- www.linkedin.com/in/aakash-ramasubramanian/

EDUCATION

University of Illinois Urbana-Champaign

Master of Science, Business Analytics | 4.0 GPA

August 2023 – May 2024

Champaign, IL, USA

SRM Institute of Science and Technology

Bachelor of Technology, Electronics and Instrumentation Engineering | First Class

July 2015 – May 2019

Chennai, India

FULL-TIME PROFESSIONAL EXPERIENCE

Mu Sigma Inc.

Nov. 2019 – June 2023

Roles & Responsibilities

Bengaluru, India

Apprentice Leader (Leadership Experience)

Dec. 2022 – June 2023

- Drove business growth by researching, tapping into right sources, understanding requirements and translating them into proposals
- Enabled clients to represent their business problems with design thinking tools and track projects by creating a personalized platform
- Restructured learning plans for smooth onboarding and conducted learning sessions to foster cross functional collaboration

Decision Scientist

Nov. 2019 – Nov. 2022

Delivered the following end-to-end data-driven solutions and added value by driving key decisions, across various business functions for a Fortune 10 Oil and Gas corporation:

- Spearheaded and fine-tuned an asset class solution, that uses machine learning and multidimensional data analysis to forecast resource estimates, optimize well design, reduce exploration & drilling capital expenditure, and facilitate better negotiations for land transactions
 - **Outcome:** Cost savings of ~\$2.5B over the next five years and up to ~70% reduction in model training time
 - **Concepts Used:** Natural Gradient Boosting for Probabilistic Prediction, Monte Carlo Simulation, Geospatial Stratified Sampling, Regression Analysis, Parallel Computing, Object Oriented Programming – Dependency Injection
 - **Accolade:** Won the “Subsurface Excellence Award (2023)” for innovation and rapid transformation of the client’s core business function using cutting-edge technology
- Built an image classification model and the production architecture to automate the data engineering, model scoring & retraining pipelines on cloud, to predict the lizard species from user uploaded photos for preventing non-native lizard invasion at supply bases
 - **Outcome:** Improved speed of response ultimately minimizing delays and save \$5-10MM for incursion response
 - **Concepts Used:** Computer Vision, Transfer Learning, Extract Load & Transform
- Established a hierarchy of parent organization and its subsidiaries for tracking the accounts payable & receivable by using advanced preprocessing from data lake to warehouse, and staged unsupervised machine learning techniques
 - **Outcome:** Equipped the finance team to identify buyer/supplier parent-subsidiary mapping and effectively manage transactions
 - **Concepts Used:** Natural Language Processing (NLP), Named Entity Recognition (NER), Bidirectional Encoder Representations from Transformers (BERT), Central Limit Theorem, Clustering

ACTIVITIES & OTHER RELEVANT EXPERIENCE

Gies College of Business | Graduate Hourly Position

Oct. 2023 – Present

Graduate Research Assistant

Champaign, IL, USA

Collaborated with a faculty member to develop proof of concepts for their research, involving complex machine learning architecture

Concepts Used: Deep Learning- Recurrent Neural Networks (LSTM & GRU), Feed Forward (Multilayer Perceptron), Ablation Study, Time Series Analysis, Social Media Analytics

Graybar Electric Company Inc.

Aug. 2023 - May 2024

Business Practicum

Champaign, IL, USA

Implemented a classification model which ranks stock items based on their inventory turnover and specific business rules, to automate and manage approval of new stock requests

Projects & Publications

- Analyzed the sales of an Ethereum based NFT and orchestrated a workflow to generate key insights (November 2023)
- **Publication:** Process Control and Wireless Data Management by Constructing a Distributed Control System- IJRTE (June 2019)

SKILLS & INTERESTS

- **Skills:** Data Science; Machine Learning; Statistics; Consulting; Client Engagement; Text Analytics; Classification; Clustering; Regression; Adaptability; Data Engineering; Content Creation; Problem Solving; Design Thinking; Googling; Agile; Optimization
- **Tech:** Python; Azure; SQL; R; PowerBI; DevOps; Databricks; CI/CD Pipelines; Excel; MLOps; AWS; Spark
- **Languages Spoken:** English(fluent); Tamil(fluent); Hindi(fluent)
- **Interests:** Artificial Intelligence; technology; mathematics; stocks; Formula 1; traveling; movies; music; food; badminton