SUHRUTH KRISHNA YALAMANCHILI

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EDUCATION

INDIANA UNIVERSITY, BLOOMINGTON, INDIANA
Master of Science in Data Science; GPA: 3.8   Expected May 2025
Relevant coursework:Machine Learning for Econometric Models, Microeconomic Theory, Applied Database Technologies

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD
Bachelor of Computer Science; Cumulative GPA: 3.8   Aug 2018 - July 2022

SKILLS

Programming & Databases:	Python, R, SQL (MySQL, PostgreSQL, Microsoft SQL Server), MongoDB, Excel
Big Data & Cloud:	Hadoop, AWS (Redshift, S3, Glue, Lambda), Google Cloud Platform
ML & Visualization:	scikit-learn, SciPy, Causal Inference, NumPy, Pandas, Tableau, Power BI, AWS QuickSight
Software & Core Concepts:	Data Structures & Algorithms, SAS, Advanced Mathematics & Statistics

WORK EXPERIENCE

Research Data Analyst | Kelley School of Business, Bloomington   Nov 2024-Present
Technologies Used: PySpark, T-SQL,Causal Trees, R
- Developed and enhanced **high-performance ETL pipelines** for **data manipulation**(T-SQL, PySpark) to process **10K+ ad campaign records** of **structured and unstructured data**, uncovering **seller trends** and boosting **data efficiency**.
- Applied **causal inference techniques** to evaluate the impact of **eBay's Promoted Ads** channel on **seller performance**, comparing **10,000+ adopters and non-adopters** to identify **strategic differences**.
- Drove **data-driven decision-making** for **ad campaign optimizations**, contributing to a **20% increase in ROI**.

Data Analytics Intern | Medha Servo Drives Pvt. Ltd, Hyderabad   May 2024 - July 2024
Technologies Used: Python, SQL, Excel, Tableau
- Deployed a **machine learning model** to **detect faults and anomalies** in train18, diesel locomotive systems.
- Trained a **Logistic Regression model** which attained over **93% accuracy** in finding **model and warehouse location of regular faults** for a dataframe of over **18000** records for **detail oriented problem solving**.
- Leveraged model evaluation techniques such as **cross-validation** to ensure robustness and reliability, **improving fault detection efficiency by 15%**, and **reducing false positives by 12%** in critical railway operations.

Senior Analyst | Capgemini Services India, Kolkata   Mar 2022 -Aug 2022
Technologies Used: PEGA, JavaScript
- Streamlined **Customer-Relationship Management(CRM) solutions PEGA,** automating workflows and cutting down customer service time by **30%.** Refined operations with **rule-based automation,** refining accuracy and productivity.
- **Architected and launched rule-based automation**, optimizing systems and **upgrading service solution accuracy by 25%**.
- Formulated data-driven benchmarks**, KPIs, and metrics**, enhancing decision-making and increasing productivity by **15%**.

Business Intelligence Developer | MAQ Software, Hyderabad
Technologies Used: Power BI, Microsoft SQL Server   Oct 2021 - Mar 2022
- Programmed **4+ real-time dashboards** using **Power BI** and **SQL Server** to provide actionable business insights.
- Utilized **Azure Pipelines** to automate data flow processes, significantly lowering workflow completion time by over **3+ days.**
- Established comprehensive **data definitions** in **Microsoft SQL Server**, harmonized business **metrics** and **data definitions** across **15+ metrics**, standardizing interpretation and decision-making for clients.

PROJECTS

Data Analysis of Public Health Data
- Analyzed over **15,000 records** of **mortality data** related to **COVID-19, Influenza, and RSV** using **advanced data processing** and **reporting techniques** on **Google Cloud Platform**, uncovering insights into the impact of these diseases across **18+ demographics**.
- Engineered a **data wrangling pipeline**, increasing **data handling efficiency by 20%**, and executed **machine learning** for **predictive analytics**, utilizing visualizations such as **line plots, area charts, and pie charts** to drive decision-making.

New Hire Matching Using Fuzzy Logic and ConceptNet 5 API
- Automated the **new hire matching process** using **fuzzy logic and ConceptNet 5 API** for the **Indiana University Foundation**, integrating data from **Qualtrics** to match over **18,000** new hires with suitable buddies based on skills and preferences.
- Implemented a **real-time ETL pipeline** to seamlessly update and maintain the **matched list in Excel**, streamlining the entire process and bringing down **onboarding time by over 40%**.

PUBLICATIONS

- Contributed to the data analysis and reporting of results in a research paper titled *'Exploring Scheduling Techniques for RTOS'* in Springer as part of the 7th International Conference on ICT for Sustainable Development.

CERTIFICATIONS

- Google Data Analytics Professional Certificate
- Career Essentials in Data Analysis By Microsoft, LinkedIn
- Data Analysis in Python, IBM
- Crash Course in Causality, University of Pennsylvania