# SRI NARASIMHA NIHANTH VUDDANTI

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## EDUCATION

**Indiana University | Bloomington, Indiana, United States of America**                    **August 2022 - May 2024**
*Masters in Data Science* | GPA: **3.9 / 4.0**

## TECHNICAL SKILLS

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|---|---|---|
| Programming Languages & Big Data | : | **Python, R, Apache Spark (Pyspark), Hadoop, Hive,** Bash (Unix/Linux), Airflow, Java, Kafka |
| Databases and Cloud Technologies | : | **AWS** (S3, Redshift, Glue, EMR)**, PostgreSQL, MySQL, MongoDB,** Neo4j, GCP(BigQuery) |
| Data Science & Miscellaneous | : | **SQL, NoSQL, HiveQL, pandas, scikit-learn, Git,** Snowflake, DevOps (CI/CD), Tableau, Agile, Visualization, Data Modeling, Statistical Modeling, Statistics, PyTorch, Databricks, Excel, Jira |

## WORK EXPERIENCE

**Indiana University MoneySmarts** | Bloomington, Indiana, United States of America                    **February 2023 - May 2024**
*Marketing Data Analyst*
- Spearheaded data-driven marketing campaigns, elevating MoneySmarts visibility and driving a 160% surge in student office traffic.
- Conducted sentiment analysis and topic modeling on social media data and surveys, boosting social media engagement by 25%.

**Eli Lilly and Company** | Indianapolis, Indiana, United States of America                    **May 2023 - August 2023**
*Business Insights and Analytics Intern*
- Worked on a statistical model using R, for projecting immature IQVIA LAAD medical claims (Mx and Hx) data for Lilly's Alzheimer's disease brands, bringing down wait time to view data from 12 weeks to 4 weeks.
- Designed ETL data pipelines in python to automate the analysis and validation of brand sales and HCP (Health Care Professionals) data from Redshift and Snowflake, which reduced dedicated manual work by 70%.
- Offered strategic guidance to senior executives on using projections for enhanced market growth forecasts via Tableau dashboards.

**JP Morgan & Chase. Co** | Hyderabad, Telangana, India                    **August 2020 - July 2022**
*Software Engineer – Big Data Engineer/Data Scientist*
- Developed a scalable SparkML pipeline leveraging Decision Tree Classifier to generate adaptive rules for credit card fraud detection and migrated the project to AWS EMR, slashing costs by 30% compared to on-premise Cloudera cluster.
- Built ETL and ELT data pipelines orchestrated using Apache Airflow to ingest terabytes of credit card transactions data daily into on-premise data lakes and data warehouses, reducing manual workload by 40%.
- Ingested financial and transactional data from 15+ disparate data sources to load graph databases and create data views used in 20+ Tableau dashboards used to convey key KPI's to business leaders.
- Automated on-premise Hadoop cluster resource monitoring and reporting, reducing spark job failures by 90% and eliminating manual intervention for weekly reports.

**JP Morgan & Chase. Co** | Hyderabad, Telangana, India                    **January 2020 - July 2020**
*Software Engineer Intern – Data Engineer*
- Boosted Data Scientist productivity by 40 hours/quarter by integrating data governance strategies and automating Quality Control in ETL flows dealing with sensitive financial PII data, while upholding strict data security and compliance standards.
- Designed and executed robust data backup and archival protocols, securing data in AWS Glacier, saving 80% in storage costs.
- Attained full automation of the archival workflow with Python and Boto3 scripts, resulting in a 40% reduction in manual efforts.

## PROJECTS

**GraphLink - Parallel Graph clustering algorithms using GPU** | *Skills: C++, Machine Learning, Data Structures*
- Built a Python library with CUDA C for GPU acceleration, boosting algorithms like K-means to speed up 30x compared to CPU.

**Travel Scheduler** | *Skills: Geospatial data analysis, Google Maps API, Matplotlib, Data Mining, Numpy*
- Engineered an application using KNN and haversine distance matrices to devise a cost-effective travel plan for tourists that reduces travel time by about 40%.
- Streamlined Data Extraction, Cleaning, Processing and Validation of Google Maps JSON data to identify popular locations in a city.

**Last Mile Delivery Optimization** | *Skills: Flask, Firebase, Capacitated Vehicle Routing Problem, Time Series Analysis, API Development*
- Engineered a hackathon winning application which utilized a weighted model developed on top of Google OR Tools to provide optimal delivery routes, resulting in a projected $20000 yearly savings and 70% delayed delivery reduction for PepperFry.
- Delivered a fleet allocation strategy to cut over-allocation by 30% via historical demand analysis using ARIMA and LSTM.

## AWARDS/ACHIEVEMENTS

- Winner of GT-IDEA case competition hosted by Grant Thornton themed around Change Management and secure application design for companies transitioning to Generative AI (GenAI), securing the first place and winning $6000.
- Recognized as JP Morgan Chase & Co's Employee of the Month, for impactful work on fraud detection models.