

# SAI PRATHEEK BANDA

## Analytics Data Engineer

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### Work experience

#### Maersk, Charlotte, US

2020-12 - Present

##### Analytics Data Engineer II

- Deployed a CI/CD pipeline with Terraform IAC in an Azure environment, enhancing data engineering/analytics workspace efficiency.
- Initiated projects that automated and standardized manual processes, leading to \$200,000 in annual savings
- Led a customer experience improvement initiative by creating a Python application that notifies customers of shipment exceptions in North America, achieving \$100,000 in savings and 400 annual efficiency hours.
- Developed an ETL pipeline for daily processing of 1 million records from Azure Data Lake to SQL Database, integrated with Power BI. This solution provides weekly insights into CX KPIs, CSAT Scores, and leadership case load distribution, enhancing performance visibility for 350 colleagues across various verticals
- Created a pipeline/visuals for daily CX team capacity and backlog visibility, enhancing productivity and leadership team management
- Analyzed NAM imports to streamline CX actions, creating a unified dashboard for issue resolution. This led to \$50,000 in annual savings through enhanced operational efficiency.
- Collaborated closely with key client CX teams, enhancing data visibility on crucial KPIs. This partnership fostered strong relationships and facilitated joint efforts to address and improve any SLA shortcomings.

#### American College of Emergency Physicians, Irving, US

2020-01 - 2020-05

##### Data Analyst Intern

- Developed a data automation pipeline using REST API to manage PM KPI's in Asana resulting in 40 hours of monthly efficiencies gained.
- Designed and developed an ETL pipeline that generates visual representations of project KPIs for multiple project managers.
- Collaborated with the data science team for data cleaning and variable selection from 30M+ rows of HPI data to perform data analysis which identify practice patterns for improving quality and payment policies.

#### Nisum Technologies, IN

2017-08 - 2018-06

##### Associate Software Engineer -Business Intelligence

- Designed, implemented and maintained pipelines from multiple databases to azure data warehouse in agile environment to produce business-critical data reliably and efficiently using ETL, python and Azure
- Created real-time data visualizations using Power BI that allow consumption of the data learnings and insights
- Presented a proof of concept of an ETL Pipeline to a customer which resulted in learning the project for the company

### Academic Projects

#### Predictive Modelling - Appliances' Energy Consumption Classification| Python, Tableau

- Conducted data analysis using Gradient descent algorithm for Logistic Regression, Decision tree, SVM, Ensemble methods to predict and classify energy consumption of appliances with 84% accuracy
- Deployed Tableau dashboards to perform exploratory data analysis and report on data inconsistencies

#### Prompt Engineering -Chat GPT | Python

Developed a prompt engineering script for sentiment analysis of survey responses, simplifying the task for administrators to gauge overall customer sentiment. The tool categorizes responses with tags, allowing for efficient identification and addressing of critical feedback, facilitating a more targeted approach to customer concerns.

### Education

#### The University of Texas at Dallas

2018 -08 - 2020-05

##### Master of Science-Business Analytics

#### Mahatma Gandhi Institute of Technology

2013-08 - 2017-05

##### Bachelor of Technology - Computer Science

### Qualifications

#### TECHNICAL SKILLS

- Programming/Databases: Python, Scala, HCL, Pyspark, SQL, PostgreSQL
- Azure: Iac Development, Databricks, Data Factory, Data Lake, Functions, Pipelines, Synapse Analytics,
- Analytics & Statistics: Hypothesis Testing, Feature Selection, Dimension Reduction, Data mining, Data Analysis, Data Visualization, Linear|Logistic Regression, SVM, Decision Trees, Neural Networks, Clustering
- Tools: Snowflake, SAP BI, Salesforce, Cisco Analyzer, Git, Jira, Rest API,SSMS, Visual Code, Alteryx,

### Certifications

- Alteryx Designer Core, Version 2020 Alteryx
- Exam 772: Perform Big Data Engineering on Azure Microsoft Cloud Services