

# Naganathan Meenakshi Sundareswaran

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## SUMMARY

Aspiring data professional with a strong passion for data analysis, visualization, and deriving actionable insights. Proficient in python programming, machine learning techniques, statistical analysis, and data manipulation with SQL, curious on driving business decisions.

## SKILLS

- **Programming:** Python, R, SQL
- **Python libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, SciPy, Seaborn, BeautifulSoup, NLTK, MLFlow, Keras, TensorFlow
- **Data Visualization:** ggplot2, dplyr, Excel, Tableau, PowerBI
- **Database:** MySQL, MS SQL Server
- **Cloud and Big data:** PySpark, GCP - BigQuery
- **CI/CD:** Git, GitHub.

## PROJECTS

- **Graduate Capstone Project [OneNineAI]:** Successfully implemented and integrated model monitoring MLOps feature with MLFlow framework for capturing model performance, metrics and logging parameters, enhancing the scope of the platform.
- **Payment network database design:** Analyzed, designed, and implemented a database system for a digital payment network. Ensured all the necessary constraints are satisfied and executed the tables and queries in MSSQL and the UI with Python Flask.
- **Customer Segmentation:** Executed an end-to-end customer segmentation project based on demographic information, purchase history, browsing behavior and preferences using k-means clustering and random forest algorithm to provide insights on how to tailor marketing efforts for each segment to increase annual customer engagement.
- **Data Integration and ETL:** Designed and developed data pipelines to extract consumer, sales, and market data from various sources, such as ERP systems, CRM systems, and third-party APIs. Implemented data preprocessing, data engineering, data cleaning, data wrangling, data validation, data manipulation and data transformation processes using SQL and Pandas scripts for better data architecture and data quality for efficient querying and reporting.
- **Novozymes Enzyme Stability Prediction:** Developed innovative models to predict melting point temperature of enzymes with the deep neural networks; bagged a bronze medal with a model accuracy of 60.4% using CNN and hyperparameter tuning.
- **Dravidian Language Text Classification:** Collected open-source data of Tamil and English news text, created synthetic data by mixing both texts and annotated them. Achieved highest accuracy with Naive Bayes to classify a document based on the labels.

## EXPERIENCE

### New Jersey Institute of Technology

Newark, NJ

#### Teaching Assistant (Machine Learning)

Sep 2023 - Present

- Evaluating and grading student assignments, providing detailed feedback to improve their understanding of machine learning concepts and techniques, conducting one-on-one sessions with students, leading to improvement in overall student comprehension.

### SIFANG Automation India Private Limited

Bangalore, India

#### Assistant Manager

Apr 2019 - Nov 2020

- Revamped product configuration system resulting in a 40% reduction in man-hours, improving overall efficiency in project execution.
- Implemented a comprehensive tracking system for customer-related product issues, resulting in the identification of unique opportunities for product enhancement thus increased customer satisfaction by 20%
- Developed customized visualizations and presentations of insights for stakeholder communication.

#### Senior Engineer

Apr 2018 - Mar 2019

- Engaged in comprehensive data modelling in automation projects, involving integration of data from various sensors, digital meters, utilizing object-oriented design for efficient representation and management of the collected data.
- Conducted thorough analysis of product metrics and performance resulting in the creation of reports and dashboards that met utility requirements.

#### Engineer

Sep 2016 - Mar 2018

- Extended troubleshooting support and resolved product issues for over 15 clients, resulting in a reduction of complaints by 20%
- Developed and implemented a training program for execution teams and the end users on new product features, resulting in an increased understanding of product capabilities.

### Easun Reyrolle Limited

Hosur, India

#### Engineer

May 2015 - Sep 2016

- Conducted product testing, verification, and validation to ensure compliance with industry standards and regulations, resulting in a 90% success rate. Tracked and resolved product bugs through an agile development process.

## EDUCATION

### M.S, Data Science, GPA: 3.83/4.0

Jan. 2022 – Dec. 2023

New Jersey Institute of Technology

Newark, NJ

**Courses:** Statistics, Machine Learning, Deep Learning, Natural Language Processing, Data Analytics with R, Big Data, Database management and design.