

# Renganathan Rajagopal



## Machine Learning Engineer

+918903901336    renga9695@gmail.com    Chennai, India, IN    LinkedIn

### SUMMARY

A detail-oriented Machine Learning/Data Engineering professional with 6+ years of experience in delivering successful business solutions for valued clients. Skilled in end-to-end machine learning pipelines, advanced technologies, and agile environments. Proficient in communicating insights at all levels and contributing to building scalable pipelines for solving business problems.

### PROFESSIONAL EXPERIENCE

#### Machine Learning Engineer

Mar '20 - Present

#### Tiger Analytics

Chennai, India

**Project:** Insurance Domain | **Tech Stack:** : AWS EMR, S3, Hive, Spark, Tableau, Python, Scikit-Learn, Git, Airflow, SQL, Computer Vision, Drift Analysis

- Achieved **scalability using EMR** in ingesting commercial insurance data from disparate systems to AWS S3 for analytics
- Analyzed** the Feature that is used in the Model and created a storytelling insight to improve the efficiency of the model
- Optimized** the ETL process and **Reduced 60% of man-hours** that are used as input for Data Science Insights achieved it to **complete it by 18 hours which usually takes a Month**
- Orchestrated** the whole ETL Pipelines process which sources from different channels and created a solid pipeline for Data Processing and Modelling using **Airflow**
- Analyzed the Quality of the data** with certain Metrics and provided flawless data to the Business Provided Analytic Insights for predictors and targets for the Data sets Improvised the predictive model's performance by creating data-driven features with feature engineering
- Build the predictive models** through various Machine Learning Tools and performed continuous model monitoring and retraining
- Interpreted and communicated** the prediction results of the classification models to Stakeholders and Product Owners
- Worked on Analyzing the Drift Metric for the Computer vision problem for the Planogram Images and Defiend the Level of metrics has to be used for a given Noise that happened in the Inference Image in the SKU Level.

#### Engineer

Feb '18 - Mar '20

#### Movate

Chennai, India

**Project:** Media Analytics | **Tech Stack:** PySpark, Hive, SQOOP, MS Excel, Python, Git

- Spearheaded in **collecting data and processing**, using pySpark and other Big data Related Tools
- Processed Data from the database and **created custom reports** using Bigdata Tools
- Carried out Ad-hoc Analytics** as per the need of the customer to improve the productivity of the process
- Developed Backend queries** for the Spark-SQL to support the Analytics report that is used to Measure the TRP.

#### Trainee

Feb '17 - Jan '18

#### Sensiple Software Solutions

Chennai, India

**Project:** Hedge Fund Analysis | **Tech Stack:** SQL, Python

- Collected** Data for Analysing the Insights on day to day basis
- Involved in Automating the process using an Automation Tool

## EDUCATION

Bachelors in Electronics and Communications Engineering	Sep '12 - Apr '16
Anna University, India	
Master of Science in ML & AI	Mar '23 - Present
Liverpool John Moores University	

## Key Skills

- **Databases:** SQL Server, Oracle, MySQL, Snowflake
- **Big Data Frameworks and Cloud Technologies:** Hadoop, SQOOP, Hive, Spark, AWS EMR, S3, SageMaker, Pyspark, SQL
- **Programming Languages and Version Control:** Python, SQL, Git, Service Now, Jira
- **Visualization Tools:** Tableau, MS Excel
- **Machine Learning:** Regression and Classification Algorithms, Tensorflow
- **Deployment Tool:** Airflow, Docker
- **Operating Systems:** Windows, Linux,Mac OS X

## INTEREST AND ACHIEVEMENTS

- AWS Certified Cloud Practitioner
- Astronomer Certification for Airflow Fundamentals
- MLOps Specialization from Deeplearning .ai
- Machine Learning Specialization from deeplearning.ai
- Databricks Certified Associate Developer for Apache Spark 3.0