Mukesh Arambakam

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Personal Summary

A Senior Machine Learning Engineer, currently working with Natural Language Processing and Neural Machine Translation, who is also a Graduate with a Master's Degree in Data Science. I am proficient in **Machine Learning**, **Natural Language Processing**, **Machine Translation**, **Data Analytics**, **Statistical Modelling**, **Deep Learning**, and **Artificial Intelligence** . I also have 2 years of work experience as an **Application Engineer**, who is skilled at design, development and testing of cross-platform applications.

Skills

Programming Languages:	Python, Java, R, JavaScript, C++, SQL, PL/SQL
Machine Learning Libraries	Scikit-learn, PyTorch, TensorFlow, Keras, NumPy, Pandas, Matplotlib, OpenCV, NLTK
Frameworks:	Hibernate, Spring, Spring Boot, Mockito, RESTful APIs, Kafka, Zookeeper, Flask, Express
Web Technologies:	React, Node.js, Angular, jQuery, HTML, CSS, Bootstrap
Other Technologies:	git, GitHub, SQL, Docker, Jenkins, Power BI, Tableau

Work Experience

Oracle Corporation

SENIOR MACHINE LEARNING ENGINEER (IC-3)   *Nov. 2020 - Current*

- Involved in the Research and Development of techniques used in Dataset Analysis, Data Cleaning and Engine Evaluation
- Responsible for various stages of development in the NMT Pipeline: Data Cleaning, Model Training and Evaluation
- Improved the creation of user-generated data for Model fine tuning post training

APPLICATIONS ENGINEER (IC-2)   *June 2019 - Aug. 2019*

- Coordinated with multiple global teams, business analysts and stake-holders to develop a cross-platform application.
- Lead developer in overhauling the project security flow of the Product and introduced 2 new features.
- Implemented a micro-service which communicates between tenants in a *Multi-Tenant Architecture*.
- Mentored 10 junior team members, provided insights about the product's internal working and underlying tools.

APPLICATIONS DEVELOPER (IC-1)   *July 2017 - May 2019*

- **Certificate of Appreciation:** For *outstanding contribution* to the Product's Development.
- Assumed a pivotal role in the development of 3 core features of the product along with my team members.
- Optimized the performance of an internal module's filter framework with the use of dynamic SQL queries by 30%.
- Improved the performance of *search framework* by 20%, using query optimization techniques.

Education

Trinity College of Dublin   *1:1*

M.SC. IN DATA SCIENCE   *2019 - 2020*

Thesis: **Federated Meta-Learning:** A Novel Approach for Algorithm Selection.

FMLearn, an application which allows the exchange of meta-data via APIs about machine learning models and data for the purpose of meta-learned algorithm selection and configuration.

Amrita School of Engineering   *CGPA: 8.37/10.0*

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING   *2013 - 2017*

Publication

Jun 2020 **7th ICML Workshop on Automated Machine Learning (AutoML)**,

Federated Meta-Learning: Democratizing Algorithm Selection Across Disciplines and Software Libraries