Mukesh Arambakam

· DATA SCIENTIST IN THE MAKING ·

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Personal Summary

A Master's in Data Science student from Trinity College of Dublin, with 2 years of work experience as an Application Engineer at Oracle India, Pvt. Ltd. Highly skilled in Machine Learning, Data Analytics, and Creative Thinking. Seeking a challenging career as a Data Scientist to apply my knowledge and skills by tackling real-world issues. I am available for employment upon submission of my thesis in August 2020.

Skills

Programming:	Python, Java, R, Processing, C++, C, SQL, PL/SQL
Frameworks:	Scikit-Learn, Tensorflow, Flask, Spring, Hibernate, Mockito, REST
Tools & IDE's:	Intellij, Eclipse, SQL Developer, Ant, Oracle12c, MySQL
Server & Version Control:	Oracle Weblogic12c, git, GitHub, TortoiseHG

Education

Trinity College of Dublin *aiming for 1:1*

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

Relevant Course Work: Machine Learning, Data Analytics, Artificial Intelligence, Optimisation Algorithms for Data Analysis, Knowledge and Data Engineering, Text Analysis, Applied Statistical Modelling, Data Visualisation

Thesis: **Federated Meta-Learning:** A Novel Approach for Algorithm Selection.
FMLearn, an application which allows the exchange of meta-data 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*

Relevant Course Work: Data Structures, Design and Analysis of Algorithm, Pattern Recognition, Data Mining and Warehousing, Database Management Systems, Software Engineering

Projects

Captcha Solver *captcha-solver*

IMAGE AND AUDIO CAPTCHA SOLVER *Oct. 2019*

• Parallelized image and audio captcha solver based on TensorFlow's Convolutional Neural Networks implementation.

BAN on AWS *ban-on-awscloud9*

BODY AREA NETWORK SIMULATIONR *Nov. 2019*

• Implementation of Body Area Network on Amazon AWS-IoT cloud9 Instances.

Connect 4 *connect-4*

GAME BASED ON ARTIFICIAL INTELLIGENCE *Jan. 2020 - May. 2020*

• A multi-agent implementation of the game Connect-4 using MCTS, Minimax and Exptimax algorithms.

Sentiment Analysis *twitter-sentiment-analysis*

TWITTER SENTIMENT ANALYSIS *Jan. 2020 - May. 2020*

• An opinion poll where public tweets considered as an indicator to predict the actual election results.

Publication

Certifications

2016	**Machine Learning**, Stanford University, Coursera	✹ *Online Certificate*
2016	**Cryptography I**, Stanford University, Coursera	*Course Completed*

Work Experience

Augray Private, Ltd.

DATA SCIENTIST INTERN   *July. 2020 - Current*

- Developing an Augmented Reality based "Try On" application

Oracle India Private, Ltd.

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

- **Certificate of Appreciation:** For *outstanding contribution* to Prime Projects Product Development
- Lead the development in redesigning the security flow for the Product and introducing new features.
- Co-Designed and Developed an application which works across multiple platforms.
- Developed a micro-service which communicates between tenants in a *Multi-Tenant Architecture*.

Oracle India Private, Ltd.

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

- Engineered multiple core features in the product **Oracle Primavera Cloud**.
- Optimized the product's filter framework for dynamic queries by 30% using Oracle's *Query Builder* framework.
- Developed an optimized *search framework* to retrieve data from the database using query optimization techniques.

Oracle India Private, Ltd.

GRADUATE INTERN   *Jan. 2017 - June. 2017*

- Worked as a Selenium Automation Engineer for **Oracle Primavera**.
- Briefly worked as a Quality Assurance Engineer.

Cisco Systems Private, Ltd.

INTERN   *Oct. 2016 - Mar. 2017*

- Worked on Platform Transformation for an internal Product: **Cordys Process System**.
- Designed the UX, Architecture and Schema Design for the application.

Hitachi Solutions, Ltd.

INTERN   *July. 2016 - July. 2016*

- Created a web application with an authentication system.

Extra-Curricular Activities

2016-17	**Placement Representative**, B. Tech CSE - B	
2016	**Tech{know}logy Club**, Conducted a workshop on *Introduction to Open Source and git*	
2013-15	**Class Representative**, B. Tech CSE - B	
2015	**Anokha 2k15**, worked in the Public Relations Department	

Hobbies and Interest

Reading Comics and Manga, Watching Anime, Playing the Piano, Basket Ball, Cycling