

# Mukesh Arambakam

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## Personal Summary

A Graduate with a Master's Degree in Data Science, with 3 months experience as a Data Science Intern and 2+ years work experience as an Application Engineer. I am proficient in **Machine Learning, Data Analytics, Data Visualization, Python, R Programming, JavaScript, React**, and **Node.js**. I am also skilled at design, development and testing of cross-platform applications and micro-services using **Java, Hibernate** and other related technologies. Currently open to opportunities in the field of data science and software development to apply my knowledge and improve my skills.

## Skills

**Programming Languages:** Python, Java, R, JavaScript, C++, SQL, PL/SQL

**Machine Learning Libraries:** Scikit-learn, TensorFlow, Keras, NumPy, Pandas, Matplotlib, OpenCV, NLTK, AutoSklearn

**Frameworks:** Hibernate, Spring, Spring Boot, Mockito, RESTful APIs, Kafka, Zookeeper, Flask, Express

**Web Technologies:** React, Node.js, Angular, jQuery, HTML, CSS, Bootstrap

**Operating System:** Windows, Linux

**Other Technologies:** git, Jenkins, MySQL, MongoDB, Power BI

## Work Experience

### Augray Private, Ltd.

DATA SCIENTIST INTERN

July 2020 - Current

- Part of a global team of 6, where we materialised an Augmented Reality based application.
- Refined the image and video preprocessing procedure for the application.
- Part of the Research and Development team instrumental in shaping the Convolutional Neural Network.

### Oracle India Private, Ltd.

APPLICATIONS ENGINEER (IC-2)

June 2019 - Aug. 2019

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

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.

GRADUATE INTERN

Jan. 2017 - June 2017

- Worked as a Selenium Automation Engineer, automating over a 100 test cases.
- Maintained high product quality standards while working as a Quality Assurance Engineer.

## Education

### Trinity College of Dublin

M.SC. IN DATA SCIENCE

expecting for 1:1

2019 - 2020

**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

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

CGPA: 8.37/10.0

2013 - 2017

## Publication

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

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

## Certifications

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2020	<b>MERN Stack JavaScript Developer</b> , LinkedIn Learning	<i>Online Certificate</i>
2020	<b>React Developer</b> , LinkedIn Learning	<i>Online Certificate</i>
2020	<b>Node.js Developer</b> , LinkedIn Learning	<i>Online Certificate</i>
2020	<b>Power BI Essential Training</b> , LinkedIn Learning	<i>Online Certificate</i>
2016	<b>Machine Learning</b> , Stanford University, Coursera	<i>Online Certificate</i>
2016	<b>Cryptography I</b> , Stanford University, Coursera	<i>Course Completed</i>

## Projects

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### Image and Audio Captcha Solver

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

### Body Area Network Simulation

- Realised of a real time Body Area Network simulator on Amazon's AWS-IoT cloud9 Instances.

### Connect 4 - based on Artificial Intelligence

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

### Twitter Sentiment Analysis

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

### Statistical Data Analysis of Wine Reviews

- Inferential and Bayesian statistical techniques were applied to build a ML model in R.