

# Jimmy Joseph

ARTIFICIAL INTELLIGENCE · PETROLEUM ENGINEERING

Aberdeen, Scotland, UK

☎ +447383933668

| ✉ jimmyjoseph@outlook.com

| 🏠 www.jimmyjoseph.co.uk

| 📱 jimmyable

| 📺 jimmyable

## Education

### MSc Artificial Intelligence [Distinction]

Aberdeen

UNIVERSITY OF ABERDEEN, (ACCREDITED BY THE DATA LAB)

Sep 2017-Sep 2018

- **Notable Courses:** Machine Learning, Data Mining and visualisation, Natural Language Generation, Software Agent systems, Knowledge Representation and Reasoning.
- **Thesis Project:** Adaptive Traffic Light Simulation using Multi-Agents in MATSim [Java, Maven]

### MEng Petroleum Engineering [2.1 Honors]

Aberdeen

UNIVERSITY OF ABERDEEN, (ACCREDITED BY IMECHE AND EI)

Sep 2012-Jun 2017

- **Notable Courses:** Electronic Design, CAD and Communication, Fluids and Thermodynamics, Process Engineering, Project & Safety Management, Field Development and Economics.
- **Thesis Project:** Chemical EOR Simulation of North Sea Reservoirs [Petrel, ECLIPSE]

## Relevant Skills

- Java/Python/R
- Data Science
- Calculus
- OOP
- Databases
- Project Management

## Relevant Projects

### Traffic light management - multi-agent systems

Using MATSim to design an abstract city with independent agents who interact within the sandbox environment. Testing the effectiveness of different traffic light regimes and such as fixed and adaptive lights and measuring their effectiveness using traffic throughput.

[MATSim][Java][Maven][Guice][ArcGIS][JOSM][Eclipse IDE][Multi-Agents]

### Intel AI Academy

Hosting Intel AI Academy workshops to teach interested students Machine and Deep Learning with hands-on resources provided by Intel.

[Python][numpy][pandas][scikit-learn][matplotlib][Jupyter-notebook][SVM][KNN]

### Personal Blog

Static web page built to showcase hobby projects and interests.

[Jekyll][Gulp][NodeJS][Github Pages][HTML][JS]

### Evaluation of AI Assistants

Assessing AI Agents such as Google Assistant, and Cortana on human participants in laboratory conditions, whilst making sure participants are fully aware of the scope and complete consent.

[Data Ethics][T-test]

### Textual Sentimental Analysis

Classification of positive and negative film and phone reviews using Naive Bayes and dictionary approaches.

[Naive Bayes][NLP][NLTK]

### Cluster Analysis

Using unsupervised learning to cluster wheat kernel datasets. EDA was used to develop hypotheses and clustering algorithms such as k-means, DBSCAN, SOM, and Deep Learning were used.

[EDA][k-means][DBSCAN][SOM]

## Noteworthy Experience

---

### Company Director

PARAKAT LTD

*Aberdeen*  
(2016-Present)

- Research and design of products
- Dealing with fiscal responsibilities
- Selling rechargeable plasma lighters

### Intel AI Student Ambassador

INTEL AI ACADEMY

*Aberdeen*  
(2017-2018)

- Organising workshops
- Learning and teaching students using resources from Intel

### President

ENGSOc, UNIVERSITY OF ABERDEEN

*Aberdeen*  
(2016-2017)

- Oversaw the whole committee and society
- Made sure the organization was moving forward
- Managed a team of 15 members

### Vice President of Memberships

TOASTMASTERS

*Aberdeen*  
(2014-2015)

- Vice President of Membership is responsible for managing, registering and awarding members and speeches
- Roles improve public speaking, evaluation and leadership skills
- Part of Public speaking and leadership focused society

## Honors & Awards

---

2018	<b>DATALAB Scholarship</b> , A collaborative programme between The Data Lab and eleven Scottish universities. It facilitates industry involvement and collaboration and provides full funding and resources for students.	<i>Aberdeen</i>
2017	<b>Chevron Specialist Scholarship - Petroleum Engineering</b> , Awarded by commendable academic merit and demonstration of specific personal characteristics.	<i>Aberdeen</i>
2016	<b>Kings Award (UoA)</b> , Awarded for outstanding work as Vice President of the Engineering Society	<i>Aberdeen</i>
2015	<b>World Finalist in SPE Petrobowl (SPE International)</b> , Participated in SPE hosted Final Petrobowl Championships during the 2015 ATCE	<i>Houston, Texas, USA</i>
2014	<b>STAR Award (UoA)</b> , Students Taking Active Roles. University recognition for development of Aberdeen Graduate Attributes.	<i>Aberdeen</i>
2014	<b>SPE International Student Bursary Award (SPE Aberdeen)</b> , Awarded for high involvement and participation in the society.	<i>Aberdeen</i>
2012	<b>S5 Medallist (Banff Academy)</b> , For excellence and overall performance in 5th Year.	<i>Banff, UK</i>
2012	<b>ACE Winches Perpetual Trophy (Banff Academy)</b> , Banff Academy's Technology Student of the Year.	<i>Banff, UK</i>