Muhammad Salman Malik

Junior Machine Learning Engineer

Hardworking Machine Learning Engineer with a flair for developing innovative solutions to solve real world problems in the most efficient way possible. Seeking opportunities to try new technologies and grow my technical skill set in a team-based atmosphere.

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EDUCATION

BSc Computer Science (Hons)
University of Nottingham Malaysia

09/2019 - 05/2022 *Semenyih, Malaysia*

Relevant Courses

- Computer Vision
- Machine Learning
- Autonomous Robotics
- A.I. Methods

EXPERIENCE

Computer Science Course Representative
University of Nottingham Malaysia

09/2021 - Present

Achievements/Tasks

- Acted as a bridge between the student body (100+ Students) and the staff members
- Received and collated student feedback regarding any issues the students are facing
- Attended Learning Community Forum (LCF) meetings and raised the issues faced by the students to find solutions for them

SCRUM Master - Software Engineering Group Project
UNM Careers Advisory Service Department

09/2020 - 05/2021

Achievements/Tasks

- Developed an efficient end-to-end solution for the clients which saved over 100 hours of research and job compilation time per semester
- Responsible for project management, overseeing task progress and ensuring our deliverables were ready by the deadline set by the clients
- Effectively translated client requirements into web application designs and systems requirements
- Designed and implemented an elegant and fully responsive U.I and integrated it with the back-end of the system using the Electron.js framework

Contact : ALICIA CHNG - +60389248080

ORGANIZATIONS

International Islamic Youth Diplomacy (IIYD) (10/2016 - Present)

Co-founded the NGO with the purpose of empowering the youth through diplomacy. Served as the Youth Activities Officer.

SKILLS

Deep Learning | Python | Pytorch | OpenCV | Numpy | Rapidminer | Azure | Weka | Matlab

RELEVANT PROJECTS

Dissertation - A comparison of data minimization methods for deep learning (08/2021 - Present)

- Investigated how to solve the problem of overfitting when training ConvNets on minimised datasets using various regularisation techniques
- Developed an innovative experimental framework to analyse the patterns that emerged from the confluence of instance selection methods with Deep ConvNet architecture
- Performed extensive experimentation to analyse the effects of various conditions such as network capacity, dataset compression ratio and type of instance selection method used on model accuracy

Computer Vision Project - Seed Classification (01/2022 - Present)

- Applied homography techniques to find the correspondences between multi-object multi-view images in a real world dataset
- Perfomed 3D reconstruction of multi-view 2D images to produce depth map that was used to train a ConvNet to classify between good and bad seeds
- Evaluated results both quantitatively and qualitatively against state-of-the-art specialised multi-view ConvNets

Autonomous Robotic Systems - Reinforcement Learning Techniques (09/2021 - 12/2021)

- Integrated the SARSA algorithm with a PID-Controller to produce 3 novel variations of SARSA, all of which produced statistically significant results over vanilla SARSA

ACHIEVEMENTS

Excellence Award (2017 - 2018)

Achieved highest grades in class during A-Levels

Top Scorer Achievement (2015 - 2016)

Achieved highest grades in school for IGCSE

LANGUAGES

English

IELTS Band 8.5/9 (Expert User)

Urdu

Full Professional Proficiency

Arabic

Professional Working Proficiency

Malay

Limited Working Proficiency