MOHAMED ARFAN M.N.

ROBOTICS & AI STUDENT - KMITL

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ABOUT ME

An energetic and motivated fresh graduate with a B. Eng. in Robotics and AI at King Mongkut's Institute of Technology Ladkrabang. Aiming to succeed in an environment of growth and earn a job position that provides me with challenging opportunities and fundamental skills.

EDUCATION

King Mongkut's Institute of Technology Ladkrabang, Bangkok 2019 AUG -2023 JUNE

B.Eng Robotics and AI

- Full Scholarship Awardee, GPA: 3.70

Google Data Analytics Professional Certificate, Google 2022 DEC -2023 FEB

An eight-course job-ready certification program offered by Google

Modern International School Bangkok 2017 AUG -2019 JUNE

AS & A Levels; GPA: 3.77

PROJECTS

AR Digital Twin: An AR android app built on Unity that allows users to deploy an AR 1:1 replica of a robot arm and control it manually or simulate real-time motion of an actual robot arm.

Pose It: A Windows simulation game where the users need to copy the moves done on screen for progression to Exercise Game: An interactive fitness game that combines exercise and adventure, without the need for supporting hardware to engage players in a variety of physical activities while embarking on a virtual quest. The playable character mirrors the actions of the user in real-time. The game was built using Unity and MediaPipe.

WORK EXPERIENCE

AIT AI Center 2022 JUNE - 2022 AUG

Machine Learning Engineer / Research Assistant

- Assisted a team of 4+ researchers in deploying real-time pose estimation models in 2+ eldercare centers.
- Designed and implemented models based on OpenPose and Tensor RT pose, a real-time multi-person 2D pose estimation using part affinity fields, for fall detection and better-suited wheelchair users.
- Collaborated with multiple eldercare center workers to gather necessary data to custom train in addition to the preexisting COCO dataset, increasing accuracy by 15%.

CMKL University | CMU & KMITL 2022 JAN - 2022 APRIL

Research Assistant

- Assisted a team of 6+ researchers from Carnegie Mellon University and ThaiBev to optimize logistics operations and detect anomalies in 3+ warehouses.
- Built and implemented production prediction models using Faster R-CNN and statistical modeling techniques to predict the inflow and outflow of pallets/packages at each warehouse, increasing accuracy by 13%.
- Collaborated with multiple warehouse staff to gather logistical data to perform further analysis and data cleaning.

King Mongkut's Institute of Technology Ladkrabang, Bangkok 2020 AUG - 2022 DEC

Teaching Assistant

- Assisted 200+ undergraduate students for courses: Physics Laboratory 1, Physics Laboratory 2, and Introduction to Programming.
- Monitored student progress and assisted students in accomplishing established learning objectives
- Managed and analyzed data entry tasks while maintaining student records.

LANGUAGES AND SKILLS

- **Programming languages:** Python [Tensorflow, OpenCV & Keras], Javascript, C, C#, C++, R, SQL, NoSQL, HTML
- **Technical Skills:** Unity, Tableau, MATLAB, CAD (SolidWorks, Blender, Autodesk), AWS, Git, Docker, Spark, Hadoop, Linux, Minitab, Spreadsheets, RapidMiner, Neural Networks, Data Analysis, Data Structure & Visualizations
- **Soft Skills:** Decision-making, Problem-solving, Project Management, Team-oriented, Creativity, Research, Time Management