Mohan Ramesh

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EDUCATION

UNIVERSITY OF LIMERICK
MSc in Business Analytics
2020-2021 | Ireland
First class honors
Cum. GPA: 3.57 / 4.0

PES UNIVERSITY
BTech in Electronics and Computer Science
2015-2019 | India
First Class
Cum. GPA: 7.46 / 10.0

LINKS

Github:// **zybermonk**
LinkedIn:// **mohanramesh**

COURSEWORK

GRADUATE
Machine learning
Natural language processing
Deep learning
Applied statistics
Applied Big data
Data governance and ethics
Econometrics

UNDERGRADUATE
Robotics
Artificial neural networks
Computer vision
Design and analysis of algorithms
Pattern recognition and classification
Drone computing
(Research Intern. 2x) Satellite comms.
Assembly coding and micro-controllers

SKILLS

PROGRAMMING
Main:
Shell • Python • R • JSON • LaTeX

Familiar:
C • C++ • Html • Matlab • Assembly

TECHNOLOGIES
Artificial Intelligence:
Keras • Tensorflow • Pytorch •FastAI
Huggingface • Haystack • OpenCV
SKlearn • Pandas • ANN • Transformers

Data handling:
AWS • VSCode •GIT • DataStudio
Docker •MongoDB • PostgreSQL

EXPERIENCE

ALTADA | Data Scientist
Dec 2021 - Dec 2022 | Ireland
Worked on building evaluation systems for question-answering and detectron2 models, by learning from the official documentation available at haystack and Facebook research. Helped in increasing accuracy and faster model deployment of NLP models by upgrading the pipeline to be compatible with SQuAD2.0 data format. Created documentation on POCs and model improvement methods and set standards on confluence.

STATSPERFORM | Data Analyst
Dec 2020 – Oct 2021 | Ireland
Worked with large teams of analysts to collect, structure and store live and post-game data for rugby union tournaments worldwide. A high-intensity, extreme deadline-based analysis work was carried out with superior team collaboration and real-time communication within and across higher-level management. Technologies such as SQL, PowerBI, GameLens, and Excel were used.

MAKER VILLAGE INCUBATOR | Start-up Engineer and CEO
2016 – 2018 | India
Created a student start-up that provided hardware and machine-learning solutions. A prototype by the company entered the BoschDNA start-up competition and competed against 1200 other start-ups to become one of the 7 finalists that won the incubation fund. Led a team of 3, traveled across the country, and learned great life lessons.

CRUCIBLE OF RESEARCH AND INNOVATION | Research Intern
2015 – 2016 | India
Worked on a remote sensing nanosatellite built by students, scheduled to be then launched on 26 September 2016 by ISRO using the PSLV-C35 rocket. Optimized encoding-decoding patterns for simulated satellite data through digital modulation (FSK/FM) using FPGAs. Technologies such as Matlab, Scilab, Xilinx, and C++ were used.

PROJECTS

*CONVERSATIONAL AI | Python, RASA, Haystack, GPT-2, GPT-3, BERT
The goal is to build a conversational chat-bot that has the ability to answer basic-intermediate fitness questions and mimic the job of an online personal trainer.

DRONE-BASED TRAFFIC CONTROL | Python, C++, Keras, TensorFlow, Transfer Learning, GoogLeNet, Arduino
A drone-based deep learning + computer vision solution to optimize traffic light patterns.

HOUSING PRICE PREDICTION | Python, Deep Learning, XGBoost
Inter-university Kaggle competition winner.

TWO-WHEELER PARKING SLOT DETECTION | Python, C++, SimVenture, SolidWorks, and Arduino
A mobile infrastructure prototype that detected empty parking spaces in a large parking lot.

LICENCES AND CERTIFICATIONS

1. Deep Learning specialization
2. Computer Vision workshop