Varughese C Varughese

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PROFESSIONAL SUMMARY

Motivated and skilled graduate specialising in Data Science and Business Strategy. Passionate about leveraging data to solve complex problems and improve business outcomes. Proficient in Python, R and C/C++. Strong background in ML and DL algorithms, data analysis, data visualization, and model performance optimization.

SKILLS

Programming: Python, R, C, C++, SQL, Java
• Strong understanding of statistical concepts like hypothesis testing, regression analysis, clustering, classification.
• Experience with data cleaning, pre-processing, and transformation techniques.
• Familiarity with machine learning algorithms and frameworks, such as Scikit-Learn, TensorFlow, and Keras.
• Ability to visualize and communicate data insights effectively using charts, graphs, and other visualizations.

WORK EXPERIENCE

Aston University   March 2022 – November 2023

Knowledge Transfer Partnership Member   *Birmingham*

- Was part of a knowledge transfer partnership between Aston University and a facilities management company called Arcus FM to develop a smart scheduling system that can react dynamically to operational demands and give the company a competitive edge in the market.
- Designed a scheduling algorithm to optimise the daily schedules of the company's engineers, so that they possess reliable and responsive ways to reschedule work at short notice.
- Made possible by analyzing operational data from the company's activity logs and creating an appropriate scheduling model in Python which is capable of making effective changes to preoptimized schedules.

EDUCATION

Aston University   December 2022

Master of Science in Artificial Intelligence with Business Strategy   *Birmingham, UK*

National Institute of Technology, Allahabad   July 2021

Bachelor of Technology in Computer Science and Engineering   *Allahabad, India*

PROJECTS

Heart Stroke Detector
- Created an ensemble machine learning model which can detect whether a patient is at risk of having a stroke using their medical information.

Acident Severity Predictor
- Developed an accident severity predictor by using data files on road safety statistics from the UK Department of Transport

Image Classification
- Developed a convolutional neural network for image classification using the CIFAR-10 dataset.

Text Generation
- Developed a Text Generator using Long Short-Term Memory Recurrent Neural Networks

CERTIFICATIONS

Data Science Certification from Pierian Training

Industrial Training Certification from Netcamp

Chartered Management Institute Award – Strategic Management & Leadership Practice (Level 7)

Green Impact Environmental Auditor for Student Organizing for Sustainability, UK (SOS -UK)