

ANIMESH DEVENDRA CHOUREY

London, UK

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Education

Queen Mary University of London

Sep 2021 – Sep 2022

Master of Science in Artificial Intelligence ; Grade: Distinction

London, UK

- *Coursework:* Machine Learning, Deep Learning & Computer Vision, Natural Language Processing, AI in Games, Machine Learning in Visual Data Analysis, Neural Networks & NLP, Cognitive Robotics, Artificial Intelligence

Acropolis Institute of Technology and Research

Aug 2016 – July 2021

Dual Degree Master of Computer Application ; Grade: 7.78 CGPA

Indore, India

- *Coursework:* Advanced Computer Networks, AI, DBMS, Cloud Computing, Data Science, Web Designing, Data Structure, Network Security, Operating Systems, Object Oriented Programming in C++, Programming in Java.

Projects

Business Analysis Using Generative AI | *Python, LLM, API, JSON*

2024

- Fine-tuned GPT-3.5 using OpenAI API and retrained the new LLM on customer complaints data which has the ability to retrieve the required data in the needed format.
- Improved LLM by evaluating the performance of the model using training loss and training mean accuracy, making it efficient to express the dissatisfaction ranging from 0-100 giving a better grasp of irritability.

Deeper Networks for Image Classification | *Python, PyTorch, CNN*

2022

- Performed and evaluated image classification tasks with the deep convolutional neural networks on the PyTorch framework.
- Developed functional models to classify images by constructing VGG and ResNet models from scratch, along with executing qualitative and quantitative evaluation on various datasets (MNIST & CIFAR) and provided a critical analysis of the models.

Aspect-Based Sentiment Analysis with BERT | *Python, Keras*

2022

- Turned a pre-trained BERT model into a trainable Keras layer and applied it to the Aspect-Based Sentiment Analysis.
- Integrated BERT as a custom Keras layer to simplify model prototyping using Huggingface.

Human Robot Simulation | *Python, ROS, Bayesian Network*

2022

- Developed a ROS package using Python to simulate human-robot interactions, where a robot predicts emotions (happy, sad, neutral) based on object size, human expressions, and head/eye movements.
- Implemented a Bayesian Network for real-time emotion prediction, utilizing Conditional Probability Tables (CPTs).
- Managed the setup and deployment in a catkin workspace, automating robotic responses for a real-time cognitive prediction model.

Underwater Image Enhancement using Masked MSE Loss | *Python, TensorFlow, CNN*

2022

- Adopted transfer learning to use a pre-trained model for underwater image enhancement and added color charts to images that act as a reference to capture image degradation.
- Integrated Masked Image Modelling by adding the masked images to the dataset corresponding to the color charts added to the images previously.
- Modified the loss function accordingly to ensure that the MSE loss is captured only from the regions corresponding to color charts, ultimately focusing on image degradation occurring in these regions.

Work Experience

Benugo Ltd

July 2022 – present

Team Leader

London, UK

- Organized team assignments daily, ensuring compliance with company standards and maintaining operational efficiency.
- Supervised and motivated team members, successfully mediating between management and staff to enhance communication.
- Developed extensive product knowledge, streamlining stock management and updating inventory weekly to ensure availability.
- Managed supplier relations and optimized ordering processes, achieving a 20% reduction in delivery times by quarterly adjustments to inventory levels.

Technical Skills

Languages: Python, C++, C, Java, MATLAB, HTML5, CSS, JavaScript, PHP

Tools/Frameworks: PyTorch, TensorFlow, Keras, NumPy, Pandas, Matplotlib, Scikit-learn, NLTK, ROS, Django

Database/Technology: MySQL, SQLite, RDBMS, JIRA, GIT, Power BI