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GAUTHAM SIVATHAN

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Employment

Machine Learning Engineer, Innvotek, London, United Kingdom **July 2018 – Present**

- Building machine learning algorithms and computer vision systems for smart city applications.
- Developing an image recognition system on X-ray image datasets using convolution neural network algorithm in TensorFlow.
- Time series forecasting for process and quality control, and workload projections using naïve approach and ARIMA method.
- Quarterly deliverables were delivered ahead of deadline as a team Lead of twelve engineers for the first quarter of an Innovate UK Project.

Dean, School of AI (Non-Profit Organisation) **Jan 2019-Present**

Responsible for educating about artificial intelligence and machine learning in Birmingham.

Education

Master of Science, Artificial Intelligence with Robotics with Sandwich Placement **2:1**

University of Hertfordshire, United Kingdom **September 2017- Present**

- **Programming Coursework:** Time series analysis in R, AI game in Python, Image processing in MATLAB, Software GUI using Java.
- **Research Seminars:** Investigative methods in computer science, importance of data literacy.
- Elected as the student representative for the modular masters' degree programs in the department of computer science for 200 students during the 2017-18 academic year

Bachelor of Technology, Mechatronics Engineering **2:1**

Hindustan University, Chennai, India **July 2013- June 2017**

- Developed a mobile robot with autonomous navigation using image processing libraries like OpenCV and SciKit-Image in Python for dissertation.
- Built a Robotic Operating System based semi-autonomous drone with position and altitude Lock.
- Coordinated a National level workshop on Robotics and Artificial Intelligence for 65 students at Hindustan University, India.

Thesis

MSc Project on Hype Investigation of Top 10 Cryptocurrencies using Natural Language Processing.

- Analysing textual statements to boost a machine learning model that can predict the market everyday based on news and opinions from the internet with API's like CoinMarketCap and Tweepy using natural language processing with libraries like NLTK and SpaCy in python.
- Building a web application using Flask to automate the process and let investors know the opinions about the top 10 cryptocurrencies of everyday.

Software Projects

- Generating key words for digital marketing AdWords.
- Facebook posts lifetime engaged user analysis.
- Developed a credit card approval prediction system using logistic regression in SciKit Learn library.
- Built a Deep Learning model with PyTorch to predict American Sign Languages using CNN algorithm.

COMPUTING SKILLS

Software: (Proficient): Python, MATLAB, R, (Familiar): Java, SQL, HTML/CSS, Git
Cloud Computing: Amazon Web Services (EC2, S3, EBS, RDS, SES, SageMaker)