

GAUTHAM SIVATHAN

Website: www.gauthamsiva.com **EMAIL:** gauthamsivathan@gmail.com **Mobile:** [+447384624636](tel:+447384624636)

LinkedIn: <https://www.linkedin.com/in/gauthamsivathan/> **GitHub:** <https://github.com/gauthamsivathan>

Tableau: <https://public.tableau.com/profile/gautham.sivathan#!/>

Machine Learning Engineer with a demonstrated working record in a STEM industry. Excellent programming skills gained through industrial and academic projects. Responsible and a problem-solving data scientist looking to further develop Data Science experience.

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.
- Current junior speaker for machine learning at Innvotek
- 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

- Performed a time series data analysis in R and Python to compare and find the hassle-free method.
- Developed an AI game player for a Nim game in Python.
- Investigated and enhanced a Software GUI using Java as a team leader and lead programmer.
- Presented a group project in data literacy to more than 60 audiences.
- 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, Chennai, 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 in python with libraries like NLTK and SpaCy.
- Building an app to automate the process to let investors know the opinions about the top 10 cryptocurrencies of everyday.

KEY COMPUTING SKILLS

- Programming/Scripting Languages: Python (Proficient), MATLAB (Familiar), R (Familiar), Java.
- Python Libraries: NumPy, Pandas, Matplotlib, Seaborn, PIL, OpenCV, Scikit-Image, Scikit-Learn, SciPy, NLTK, SpaCy, TensorFlow, Keras, Scrapy, Requests, BeautifulSoup, PySpark.
- Data Analytics and Visualisation: Tableau, Power BI, IBM SPSS.
- Databases: SQL, NoSQL
- Cloud Computing: Amazon Web Services (EC2, S3, EBS, RDS, SES, SageMaker).
- Frameworks and Tools: Git, Visual Studio, Microsoft Office Suite
- Web Analytics: Google AdSense, AdWords, Google Analytics, Facebook Pixel, HubSpot.

PAPER PUBLICATIONS

- 'ROS Based Stereo Vision System for Autonomous Vehicle' with Abhishek Balasubramaniam, and Varun Rufus Raj Samuel D, ICPCSI, September 2017.
- 'Low Cost ROS Based Semi-Autonomous Drone with Position and Altitude Lock' with Abhishek Balasubramaniam, and Varun Rufus Raj Samuel D, ICPCSI, September 2017.

PERSONAL PROJECTS

- Generating Key Words for Digital Marketing AdWords.
- Facebook Posts Lifetime Engaged Users Analysis.
- Developed a Credit Card Approval prediction system using Logistic Regression.
- American Sign Language Prediction using Convolutional Neural Network.
- Naïve Bees Prediction using Convolutional Neural Network.

ADDITIONAL INFORMATION

- Performed successfully with a random team of 4 for a Hackathon organised by Blenheim Chalcot in London on web scrapping using python libraries like BeautifulSoup, Scrapy and SQL database in AWS cloud computing services within a short span of 4 hours.

LANGUAGES KNOWN: தமிழ் (Tamil), German.

REFERENCES AVAILABLE UPON REQUEST