

Samarth Marudheri Chandrashekar

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EDUCATION

Master of Science in Engineering – Robotics

Johns Hopkins University, Whiting School of Engineering

- Machine Learning Teaching Assistant under Dr. Jin Seob Kim

Baltimore, MD

Graduating December 2020

Bachelor of Science in Engineering - Aerospace

Embry-Riddle Aeronautical University

- **GPA: 3.83/4.0** | Dean's List: 2012-2014 | Outstanding Graduate Award Nominee

Prescott, AZ

May 2015

PROFESSIONAL EXPERIENCE

Data Scientist

Insofe Education Pvt. Ltd.

Bangalore, India

May 2018 – August 2019

Drove research efforts at the smart systems research lab, delivered Artificial Intelligence corporate training and consulted with corporates to deliver cutting edge solutions.

- Automated conversion of text to structured fields for 2000 technical documents for the Dow Chemical Company resulting in 85% accuracy on unseen documents using deep learning models with Bi-LSTM and CNN architectures.
- Developed curriculum to coach professionals at Expedia, IBM, United Airlines on practical tasks such as sentiment analysis, text and image classification using advanced Data Science techniques.

Research Associate

Throttle Aerospace

Bangalore, India

October 2017 – April 2018

Designed, manufactured and deployed UAV solutions. Explored computer vision techniques for object detection and tracking to develop prototypes for smart drones.

- Built an object detection prototype to detect cracks on runways using the YOLO algorithm through onboard computers with a potential to significantly reduce flight accidents and man hours for inspection.
- Achieved a 20 percent increase in drone performance and endurance through flight testing and flight data analysis, to detect and alleviate anomalies through fine tuning of parameters.
- Designed and created content for a blog on drone technology that attracted over 200 views in three months.

Application Engineer

EDS Technologies

Bangalore, India

November 2015 – September 2017

Led pre-sale activities to identify and position software (CATIA) to tackle aerospace and automotive industry challenges. Delivered customized corporate trainings to help upskill clients to meet project demands.

- Created case studies, presented to industry leaders and secured contracts from Bosch, Boeing and Honeywell.

RESEARCH EXPERIENCE

Generating a trading strategy with Deep Reinforcement Learning

Insofe Education Pvt. Ltd.

Bangalore, India

May 2018 – August 2019

- Modeled an automated trading algorithm to predict stock prices yielding 14% ROI. Incorporated data from unstructured sources that captured major events affecting stocks of companies.
- Built deep learning models to generate signals that acted as input to the trading agent. The agent was trained using a state of the art Actor Critic Reinforcement Model.

SKILLS

Software:

Software: Python, R, Matlab, Tableau, SQL

Deep Learning Frameworks: Keras, PyTorch, Tensorflow

Relevant Python Libraries: Scikit-Learn, Spacy, Prodigy, OpenCV

Certifications:

Deep Learning and Machine Learning Specialization (Coursera)

PGP in Big Data Analytics and Optimization (Insofe, June 2018)

(Certified for quality by Language Technologies Institute of Carnegie Mellon University)

Professional Organizations: SGT – Sigma Gamma Tau: Aerospace Engineering Honors Society, TAU – Tau Beta Pi: Engineering Honors Society, AIAA – American Institute of Aeronautics and Astronautics