

ANIL BATTALAHALLI SREENATH

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EDUCATION

- University of Michigan - Ann Arbor** | CGPA : 3.57/4 (2020-2022)
Masters in Applied Statistics
- BMS College of Engineering** | CGPA : 7.80/10 (2014 - 2018)
Bachelor of Engineering (B.E), Electronics and Telecommunication Engineering
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SKILLS

- **Skills:** Machine Learning, NLP, Artificial Neural Networks, Time Series Classification(w/LSTM), CNN, Transfer Learning, Computer Vision, Statistics, Linux System Administration, SQL, REST, Object Oriented Programming
 - **Python Libraries:** Scikit-Learn, Tensorflow, PyTorch, Scikit-Image, Numpy, Pandas, OpenCV
 - **Programming Languages:** Python, R, GNU OCTAVE/ MATLAB, Julia, C, C++
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PROFESSIONAL EXPERIENCE

- Adapt Ready — Consultant - Python Software development and Machine Learning** (July 2018 - July 2019)
- **Text Classifier:** Built an end to end pipeline to obtain web articles from server sent events(SSE) to scrape them for the purpose of classification into required classes. The pipeline supports retraining and manual review queue.
 - **Rule based Relationship Extractor:** A program that when given a sentence, extracts entities, the relationship between them and the direction of relation based on a set of predefined templates containing the rules.
- [python, spacy, sse-client, rabbitMQ, postgresql, sklearn, flask, selenium]*
- Medilenz Innovations — Consultant – Statistical Modelling and Machine Learning** (October 2019 – February 2020)
- **Entity of interest extraction from medical documents:** Extraction of name of medical service providers from medical documents using statistical modeling and LSTM Neural Networks.
 - **Automation:** Automated a lot of manual tasks in the company by creating web apps and daemon scripts to save time.
- [skimage, spacy, word2vec, sklearn, tensorflow, pytorch, BERT, tesseract, Flask, Jinja2]*
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PROJECTS AND RESEARCH

- **Gait Classification with Transfer Learning:** (Mar 2021 - Jul 2019)
Original research aimed at classification of walking gait for biometric authentication. This was trained with GaitDataset-C containing different angles of walking with distorted backgrounds. The classifier is an Imagenet convolutional neural network (transfer learning) which yielded over 98% accuracy on the test dataset.
 - **Integral Transform Sampling for Power Law distribution:** (Mar 2021)
Applied integral transform sampling method to generate power law distribution samples for further analysis. This is implemented in Python, R and Julia.
 - **Sports activity classification with LSTM:** (Apr 2019)
An original research aimed at devising an LSTM classifier to classify time-series sensor data from multiple sensors to classify the activity to an appropriate class.
 - **Artificial Intelligence for robotic navigation:** (Feb 2018 - Jun 2018)
Original research where reinforcement learning was used with a four-legged robot for its autonomous motion along with computer vision and Deep-Q Neural Network.
 - **Infant Cry Classification with Machine Learning:** (Mar 2018 - May 2018)
Developed a machine learning model to classify crying sounds of a baby into Spasmodic cry or Hungry cry using spectral feature extraction and SVM.
 - **Machine learning for Epileptic EEG diagnosis:** (Aug 2017 - Dec 2017)
Original Research aimed at devising a deep learning algorithm to learn and diagnose Epileptogenic patterns from an EEG which indicates that a person had suffered from Epilepsy. *This was presented in the IEEE conference (ICECCOT 2018).*
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POSITIONS OF RESPONSIBILITY

- Assisted the Adapt Ready with interviews and programming assignments for new recruitments.
- Was invited as a consultant for the Department Advisory Board meeting at BMS College of Engineering for framing the curriculum of prospective undergraduate students.
- Conducted Nano Course on 'Python for Data Science' for Engineering Students as a TCS iON associate professor.
- Conducted numerous workshops on, 'Statistical Learning', 'Linux and Python', 'Raspberry Pi' at my alma mater.
- Served as a mentor and guide to the Computer Programming club at BMS College of Engineering.