Siddhanth Jayaraj Ajri

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EDUCATION

Northeastern University — Boston, MA
Master of Science in Computer Science — *Sep. 2021 – Present*

PES Institute of Technology — Bangalore, India
Bachelor of Engineering in Computer Science; GPA: 8.41/10.00 — *Aug. 2016 – Aug. 2020*

EXPERIENCE

Wipro Limited — Bangalore, India
Project Engineer — *Sep. 2020 - Aug. 2021*

- **Auth Module**: Led the development of the user authentication and session management module for a MEAN-stack web application soon to be open-sourced. Fixed outstanding bugs, making links/buttons responsive.
- **Elastic Stack**: Leveraged Elasticsearch, Kibana, Packetbeat and Metricbeat to develop dashboards for monitoring system machine metrics and network traffic. Further, utilised Logstash, Filebeat and Elastic APM to ingest logs generated by Spring Boot microservices and built dashboards on Kibana and Grafana for visualisation and analysis of different log events, errors, exceptions, routing of requests to different API endpoints etc.
- **Tutorials for internal use**: As part of the Open Source department, was responsible for publishing beginner level tutorials/blog posts on internal Workplace channel about open-source technologies like Terraform and Ansible.

Innointel Global — Bangalore, India
Data Science Intern — *Nov. 2019 - Dec. 2019*

- **IESM - NLP based Website Categorization Tool**: Built multiple Machine Learning models to develop a tool that could classify a given website as relevant to the mentioned domain or not, achieved best accuracy of 92%. Developed the preprocessing module for this tool using NLP techniques such as Continuous Bag-Of-Words and TF-IDF vectorizer.
- **Wrappers for Stock Trading libraries**: Wrote Python wrappers for stock trading libraries such as nowtrade and ta-lib to extend their functionalities to include more technical indicators and graphical visualisations.

PROJECTS

- **ItsMyGram**: Social media web app emulating the features of Instagram. Developed using MERN (Mongo Express, React, Node) stack. JWT authentication for account creation and login was incorporated. Materialize framework was used for CSS styling. (Link)
- **MBTI Personality Prediction**: A web application that determines MBTI personality type of an individual using textual data, in this case, the last 50 tweets of a user. An open sourced dataset with around 2000 data points was used. Model training was done using SVM, Logistic Regression and XGBoost algorithms to make 3 sets of predictions, to compare the individual outputs of each algorithm, which is in turn compared to the output obtained from the cumulative effect of all 3 algorithms.
- **Flask PokeDex**: A PokeDex, a dictionary-type web application, querying an API and displaying specific information about the popular cartoon Pokemon, developed using Python, Flask, HTML, CSS, Javascript. (Link)
- **Research on Facial Emotion Recognition: Children vs. Adults**: A research study utilizing the concept of Facial Landmarks to obtain coordinates of key points of face which are fed as inputs to Neural Network models to identify the essential facial features required for emotion recognition for both children and adults. This work is the subject of a paper that was presented at the international ACN Conference 2019, CISA-ISTA Symposium, Springer library. (Link)
- **FaceBook OpenEDS Challenge**: The task was to develop a robust, power-efficient model to perform semantic segmentation on a given dataset of pixel-level annotated eye image dataset provided by FaceBook for key eye regions: iris, pupil and sclera. The model developed achieved mIoU of 0.89353 with model complexity of 181,605 parameters. The score awarded based on the metric used for the challenge was 0.947, and thus, the model was successful in outperforming the baseline model proposed by the OpenEDS team which had a score of 0.7624. (Link)

PROGRAMMING SKILLS

- **Languages**: Python, Javascript, Java, HTML, CSS, SQL

- **Technologies**: Node, Flask, Angular, React, Pandas, Keras, Docker, Tensorflow, Django, Numpy, Matplotlib, Spring Boot, Elasticsearch, Kibana, Grafana, Firebase