Tejesh Reddy Sigineni

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EDUCATION

Masters in Computer Science **Aug 2021 - Present**
Arizona State University, Tempe, AZ

Bachelors in Information Science and Engineering **May 2019**
PES University, Bangalore, KA

TECHNICAL SKILLS

Languages:	Python, JavaScript, C, HTML, CSS
Technologies/Applications:	Sciket-learn, Tensorflow, NLTK, SpaCy, Keras, PyTorch, Seaborn, Matplotlib
Big Data and Cloud Technologies:	AWS, Amazon EMR, and EC2, GCP, Flask, Django, Docker, Kubernetes, Terraform
Database:	MySQL, PostgreSQL, Google Firebase, MongoDB
Industry Tools:	Git, PyCharm, Visual Studio, Jira, Trello, Google Suite, Notion

PROFESSIONAL EXPERIENCE

Graduate Services Assistant at **SEFCOM,** *ASU, Tempe* **Nov 2021 - Present**

- **Technologies used**: *Python, Flask, MongoDB, SQLite, Docker, Kubernetes, ExpressJS,*
- Developing a python-based scraper that aims to download 80k firmware images from supported devices manufactured by over 100+ vendors.
- Deployed and managed over 20 firmware images docker containers on Kubernetes cluster.

Software Engineer at **Unbxd**, *Bangalore, India* **July 2019 - Aug 2021**

- **Technologies used:** *Python, JavaScript, AWS, PySpark, Node.js, Flask, Django, MongoDB, SQLite, Docker, K8s, Argo*
- Built data pipelines using PySpark and Hadoop and deployed on AWS EMR to facilitate data ingestion to power e-commerce search for 200+ customers.
- Worked on integrating Unbxd e-commerce search, autosuggest, and recommendation libraries developed using React (Developed by Meta) and Javascript to customer e-commerce sites which improved the sales by an average of 20%.
- Contributed to the development of intelligent product recommender systems to rank products based on NLP and statistical approaches.
- Architected over 50 event-based workflow triggers for clients in the form of RESTful services to provide flexibility while using chron-enabled pipelines.
- Collaborated with the internal teams for developing uptime and scheduler monitoring dashboard and visualization tools, which reduced the incident resolution time by 70%.

Software Engineering Intern at **Hindustan Aeronautics Limited**, *Bangalore, India* **Jan 2019 - Feb 2019**

- **Technologies used:** *Python, Java, Apache Tomcat, JavaScript, PostgreSQL*
- Assisted the engineering department to develop a technical snag (mechanical error) consolidation software to avoid manual error while collecting mission-critical information, which decreased the error rate by almost 98%.

PROJECTS

AWS Lex Financial Assistant Chatbot *(Python, REST, AWS Lamba, AWS Lex, AWS DynamoDB)* **April 2022 - May 2022**

- Built an advanced NLP based linguistic chatbot that assists end-users and financial institutions to make calculated banking decisions, providing them with insights on several asset classes and market sentiment.

Personalized Relevancy System *(Python, AWS EC2, Flask, Pandas)* **Jan 2021 - April 2021**

- Integrated predictive feature-based relevancy system with Apache Solr Search Engine, to rank and display products in descending order of similarity by comparing query features with the indexed catalog features.

Social Media Blogging Application *(Django, Python, JavaScript, Flask, Flaskm Docker)* **March 2020 - April 2020**

- Architected and developed a CRUD based social media web blogging application which supports multi-user real time updates.

Deep Learning Clickbait Detector *(Keras, NLTK, Python, Flask, TensorFlow, JavaScript)* **Jan 2019 - June 2019**

- Designed and implemented an easy-to-use Chrome extension to detect clickbait in articles using a convolution neural network (CNN) as the backend. The model has an accuracy of 88% on the validation/test set.

OPEN SOURCE CONTRIBUTIONS

- **FirmAE Scraper:** Contributing to building a fully automated python-based web scraper that downloads firmware images and extracts metadata to help with emulation and security vulnerability analysis on the images.
- **FreqTrade:** A blockchain trading project under the GNU. Took initiative in contributing to the project road map and documenting its workflow.