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
Database:	MySQL, PostgreSQL, Google Firebase, MongoDB
Industry Tools:	Git, PyCharm, Visual Studio, Jira, Trello, Google Suite, Notion

PROFESSIONAL EXPERIENCE

Graduate Services Assistant at **School of Computing and Augmented Intelligence,** *ASU* **Nov 2021 - Present**

- **Technologies used**: Python, Flask, MongoDB, SQLite, Docker, Kubernetes
- Developing a python-based scraper that aims to download 80k firmware images from supported devices manufactured by over 100+ vendors.
- Deployed and managed the containerized application on Kubernetes, along with developing a logging service.

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.
- Integration of Unbxd e-commerce search and recommendation JS libraries to customer e-commerce sites. Contributed to the development of intelligent product recommender systems to rank products based on NLP and statistical approaches.
- Collaborated with the internal teams for developing uptime and scheduler monitoring dashboard and visualization tools, which reduced the incident resolution time by 70%.

Software Developer 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

Personalized Feature-Based 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 on descending order of similarity by comparing query feature with the indexed catalogue features.

Data Engineering Pipeline *(Python, Docker, K8s, AWS EMR, AWS EC2, Flask, Argo)* **Nov 2019 - Dec 2020**

- Developed and maintained real-time chron enabled data systems using Hadoop to wrangle a cumulative unstructured e-commerce monthly data of 10TB.

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 for contributing to the project road map and documenting its workflow.