YASHWANTH REDDY VENATI

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EDUCATION

Houston, TX	**University of Houston**	**Aug 2017 – May 2019**

Master of Science in Computer Science **(Thesis)** (GPA 3.5)
Coursework: Artificial Intelligence, Machine Learning, Statistical Research Methods, Data Mining, NLP, Computer Vision, Networks
Thesis: Large scale data collection and analysis of public Blockchains. Counting the number of Nodes in Public Ethereum Network **Link**

EMPLOYMENT (3+ YEARS)

Data Scientist	**Harris County Universal Services**	**Jan 2019 – Current (9 Months+)**

- Designed and developed **NER** model to **extract important key information** from documents which speed up the investigation process
- Developed a **Deep Learning model** which reads the work orders and automatically forwards to concerned office, **improving the processing time by over 80%**
- Built a Deep Learning model to detect swimming pools from satellite images and find illegal constructions at large scale **Accuracy 92%**
- Worked with **large amount of historic** crime data combined with **multiple real-time data sources to forecast** crime patterns using **XGBoost and Random Forests**
- Designed, developed and **integrated** multiple **Machine learning** and AI models **into existing business applications**
- Leveraged Knowledge in TensorFlow, Keras, Jupyter, Pandas, Python, Statistics, Pretrained models, Google Cloud, Docker

Graduate Research - Data Scientist	**University of Houston (Business School)**	**Dec 2017 – Jan 2019 (1.2 Years)**

- Worked with large customer data to organize, synthesize analyses and communicate data insights with clarity
- Worked with a PhD student in collecting, analyzing and preprocessing a web scrapped data
- Leveraged Knowledge in NoSQL DB, Python, R, Statistics, Visualization, Scrapy

Software Engineer & Data Analyst	**OurFood Pvt Ltd**	**Aug 2016 – July 2017 (1 Year)**

- Analyzed and visualized large scale agricultural data, integrated with various sources like weather, historic prices to build a price prediction algorithm. Automated the process to comply with new data
- Designed the database architecture of the web application
- Maintained website consistency and ensured responsiveness, cross-browser and cross-device compatibility
- Leveraged Knowledge in Full Stack Web development, Git, SQL, JavaScript, Java and debugged using Chrome Developer Tools, Python

Software Developer	**Qnovon Technologies**	**Jan 2016 – Aug 2016 (8 Months)**

- Designed and developed end to end MVC web application using spring boot, hibernate and thymeleaf
- Built multiple tech enabled platforms especially in the area of delivering and managing microservices
- Leveraged Knowledge in MVC, Git, Backend Web Development

INDEPENDENT PROJECTS

- **Stock Prediction** Predict Future Stocks by **counting the cars in parking using Ariel imagery**. Keras, Deeplearning, Machine Learning.
- **Twitter Sentiment Analysis** Real Time sentiment analysis on any topic using Machine Learning allowing users to check the opinions of the people in the world. **Python, Natural Language Processing, Sockets Link**
- **Sentiment Analysis on Amazon reviews** Analyze and **generate custom reports to each user** based on the reviews of a product according to the product specifications. **R Programming, Python, Django, NLP, JavaScript Link**
- **Realtime Dashboard** Real Time Device monitoring web application, which displays the temp, humidity of the electronic device and analyzes data. In production. **Python, Sockets, Django, Statistics, MYSQL, Redis Link**
- **Home Security Application** IOT application and Android Application which opens the door and sends the live stream image/video of the person trying to open the door to the house owner. **Raspberry Pi, Face-recognition, Firebase, Google-compute, React native**
- **Blockchain** Collect large data in public Ethereum network and design an algorithm to count the nodes in public Ethereum blockchain. **Golang, AWS, Data Analysis, Distributed Systems Link**

ADDITIONAL EXPERIENCE AND AWARDS

Certificates and Courses

- **CS50** Introduction to Computer Science | **Harvard University**
- Blockchain for Business | **Linux Foundation, IBM**
- Programming using Python | **MIT**
- Deep learning Nanodegree | **Udacity**

Hackathons

- **Winner in Data Science Track at Hack Rice 2018.** Won two **First prizes out of 400+** participants from all over USA
- Code Red Houston 2018

Skills

Big Data	Machine Learning	Full Stack	Deployment
Hadoop, Hive, Pig, Spark, HDFS, MapReduce, Apache Drill, Weka, Apache Airflow, Power BI, Grafana, InfluxDB, Scrapy, Java, Python	Tensorflow, Keras, Theano, SVM, Naïve baise, XGBoost, Random Forests, tf-idf, genism, word2vec, doc2vec, GloVe, NLP, NLTK, t-sne, Allen NLP, Spacy, Scikit-learn, Pandas, numpy	HTML5, CSS, JavaScript, Jquery, React, React-native, SQL, SQL-Server, MongoDB, Django, Flask, Spring, Hibernate	AWS, Google Cloud, IIS, Docker, Kubernetes