YASHWANTH REDDY VENATI

Houston, TX

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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 a custom **NER** model to **extract important key information from text** 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
- 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 2017

Languages and Technologies
- Python, Java, Solidity, Shell, Java, R programming, Linux, HTML, JavaScript, MYSQL, SQLite, MongoDB
- InfluxDB, Grafana, Power BI, PySpark, Pig, Hive, Hadoop, MapReduce
- Keras, Pytorch, Spacy, Numpy, Sckit-learn, Theano, Allen NLP, NLTK, genism, Doc2Vec, Word2Vec, DeepLearning, TF-IDF
- VS Code, Visual Studio, PyCharm, Intellij, Eclipse, Jupyter, Hibernate, Thymeleaf, Django, Flask
- Docker, AWS, Google Cloud
- Basic experience: .NET, C#, React, Angular, Node