VENKATA SASANK MUDIGONDA
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EDUCATION

George Mason University | Volgenau School of Engineering — **Fairfax, VA**
Master of Science in Computer Science — *August 2019 - Present*

Vellore Institute of Technology — **Hyderabad, India**
*Bachelor of Technology in Computer Science and Engineering (**GPA:** 3.75/4)* — *May 2017*

EXPERIENCE

George Mason University — **Fairfax, VA**
Graduate Teaching Assistant — *August 2019 - Present*
- Working as a Graduate Teaching Assistant for the Department of Information Sciences and Technology
- Courses include IT 431 - Advanced Web Development (ASP.NET MVC and REST Services) and IT 315 -Mobile Development (iOS & Android)
- Responsible for teaching students during lab hours and grading their projects

Wavelabs — **Hyderabad, India**
Machine Learning Engineer — *March 2018 – July 2019*
- Architected pipelines for data preparation, training, continuous integration and deployment of deep learning applications
- Built solutions for continuous monitoring and retraining deployed deep learning solutions
- Built containerized training and serving scripts using Docker for training and deployment on AWS SageMaker
- Ideated potential AI solutions for enterprises
- Taught Machine Learning and Deep Learning to undergraduate students at various universities

Wavelabs — **Hyderabad, India**
Full-Stack Software Engineer — *June 2017 - March 2018*
- Built RESTful web services using Node JS, Spring Boot and Flask
- Developed mobile applications based on native Android and React Native platforms
- Developed web applications using React JS and Angular JS (1.6)
- Containerized enterprise applications using Docker and deployed onto Kubernetes clusters
- Implemented continuous integration and continuous deployment pipelines using Jenkins

SKILLS

- **Programming Languages**: Python, R, Core Java, JavaScript, PHP, C, C
- **Data Science Libraries (Python)**: TensorFlow, Keras, PyTorch, nltk, scikit-learn, Pandas, NumPy, matplotlib, OpenCV, plotly
- **Mobile:** React Native, Android
- **REST Frameworks:** Spring Boot, Flask, NodeJS
- **Database:** MySQL, MongoDB
- **Web Application Frameworks (front-end):** React JS, Angular 1.6
- **Cloud Platforms:** AWS, IBM Cloud
- **DevOps**: Docker, Kubernetes, Jenkins

PROJECTS

Human Centered Machine Learning | Design Thinking, Machine Learning — *October 2018 – July 2019*
- Leading a team into formulating solutions using Design Thinking and Lean Methodology for Machine Learning problems that are human experience-centric.

Photo Scoring Service | Client: Care.com | TensorFlow, AWS SageMaker, Flask, Ngnix — *December 2018 - June 2019*
- Built a deep learning model based on a custom Residual Network architecture on AWS SageMaker that can rate profile images based on human aesthetic perception, inspired by Google's Neural Image Assessment (NIMA).
- The model is deployed as a SageMaker endpoint using Flask with Ngnix as the proxy server.

Intelligent Pricing Engine | Client: Unimoni | Keras, scikit-learn, Flask — *March 2019 - July 2019*
- Core member of the team working on building a model to intelligently suggest Unimoni's commission contributing to the final price in remittance, so that it maximizes the profit and customer satisfaction.

Job Failure Forecast with Log Analysis | Client: Invesco | Keras, scikit-learn, Flask, Spring Boot, Standford CoreNLP — *March 2019 - July 2019*
- For Invesco's large workflow management, failure of critical jobs is devastating to the business.
- Built a model to forecast the failures and improve the response time in attending the failures.

Predicting Credit Discrepancies | Client: KPMG | TensorFlow — *September 2018 – December 2018*
- Leading the Data Science division of the team building a data-driven solution using Machine Learning to automate the process of determining and forecasting credit discrepancies for various banking systems.

Dinely Mobile Application | Client: Dinely | React Native, Spring, NodeJS — *December 2017 - February 2019*
- Built a mobile application in React Native that helps users to find nearby restaurants that match their taste, make orders and advanced bookings.
- It also has a chatbot built using Stanford CoreNLP to interact with the users.

Smart Cart for Unmanned Billing | IoT, Raspberry Pi, Python, React Native, PHP — *January 2018 – May 2018*
- It is a smart cart that eliminates the need for having a human in the billing process in shopping malls.
- It automatically scans items dropped into and taken out of the cart, which also visualized in a connected mobile app.
- Users can pay for the products in the cart through the mobile app or through card using the attached billing machine.

CERTIFICATION

- **Deep Learning Specialization** certificate by Andrew Ng (deeplearning.ai) on Coursera — *December 2018*