

## VENKATA SASANK MUDIGONDA

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### EDUCATION

**George Mason University** | Volgenau School of Engineering  
*Master of Science in Computer Science*

**Fairfax, VA**  
*August 2019 - Present*

**Vellore Institute of Technology**  
*Bachelor of Technology in Computer Science and Engineering (GPA: 3.75/4)*

**Chennai, India**  
*June 2013 - 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.ai**

**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.ai**

**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*

- Lead 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 in 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, Stanford 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*

- Lead 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 2018*

- 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 Shopping Cart for Unmanned Billing** | IoT, Raspberry Pi, Python, React Native, PHP

*January 2017 – May 2017*

- Created a IoT smart cart that detects items dropped into using RFID, is connected to a mobile application that displays items in the cart and processes payment
- Built smart cart (hardware) using Raspberry Pi and RFID sensors, which are used to detect the RFID tags attached to items
- Built the backend using PHP and the mobile application using React Native

### CERTIFICATIONS

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