

# SAI KRISHNA AMSANPALLY

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**PROFESSIONAL SUMMARY:** Graduate student with 3 years of experience in software development, testing web applications in agile environment, writing test automation scripts. Experience in predictive modelling, NLP, Data Mining, AWS and GCP cloud services seeking a full-time position.

## EDUCATION

MASTERS (CS), University of Missouri, Columbia, MO | 3.78 GPA  
B. TECH (IT), JNT University, Hyderabad, India | 3.5 GPA

Jan 2016 - Dec 2018 (Expected)  
Sept 2008 - May 2012

## PROFESSIONAL EXPERIENCE

### Graduate Research and Teaching Assistant – MU Data Science Analytics, University of Missouri

Jun 2016 – Dec 2018

- Coursework development and teaching assistant in Data Science Analytics lab
- Data Analysis, Machine learning models for Regression, Classification, Clustering using Statistical and Mathematical Foundations in R language
- Automatic deployment of AWS cloud services EC2, S3, DynamoDB, RedShift, EMR, Lambda, ML using Python Boto3 library. GCP services demonstrated using NLP application with Reddit data, small applications using google APIs
- Data Exploration, pattern mining, Topic Modelling, Vector space models using Python and R
- Jupyter notebooks for online interactive teaching, Continuous course deployment using GitHub, GitLab.

### Graduate Research Assistant - Robert J Trulaske College of Business, University of Missouri

Jan 2016 – May 2016

- Developed Inventory Management web application using ASP.NET, C#, JavaScript, jQuery with SQL Server as backend.
- PhD student tracker web application maintenance and development using PHP, JavaScript. Agile project with weekly sprints.

### QA Automation Tester - Infosys Limited, Hyderabad, India

Aug 2013 – Dec 2015

- Developed automation test scripts for NYTimes ecommerce module using Selenium and TestNg. GIT and Jenkins used for continuous development integration. Manually test application new features, run automation test scripts for regression testing in weekly sprints.
- Cross browser testing of application on mobiles and desktops with different OS. Tested APIs using REST clients and CURL requests.
- Scrum meetings with developers and business managers.
- Strong understanding of Software Development Life Cycle, QA processes and test methodologies.
- Tested mainframe based front end applications and batch jobs of core banking applications using HP ALM testing tool.

### Software Developer - Mahindra Satyam, Hyderabad, India

Jun 2012 – May 2013

- Developed responsive web pages in MVC pattern using C#, ASP.Net, html and AngularJS.
- Wrote stored procedures for the core functionalities of application.

## SKILLS

### Languages & Frameworks

Python, Java, Selenium, R, C#,  
SAS, SQL, ASP.NET, JavaScript,  
AngularJS, ReactJS, Flask

### Interests

Software Development, Automation Testing,  
Web development, Data Analysis, Predictive  
Modelling, Natural Language Processing

### Technologies and Libraries

AWS, GCP, Apache Spark,  
GIT, Jenkins, Scikit-learn, NLTK

## PROJECTS

### Project 1: Intelligent Video Streaming Using Software Defined Networking

- Implemented SDN controller for intelligent video streaming to improve quality of user experience.
- JavaScript based HTML5 video player plugin is created to report quality metrics to server which are used to switch the streaming server hosted in Geni network. Used LAMP stack to deploy video streaming application.

### Project 2: Learning Topic models using NMF

- Non-negative matrix Factorization for learning topic models.
- Language or Frameworks: Python, Scikit-learn, and Numpy.

### Project 3: Hand written character recognition using KNN

- Dimension reduction using PCA for feature extraction
- Implemented KNN. Written characters were predicted with 82% accuracy, whereas font characters were predicted with 85% accuracy.
- Language or Frameworks: Python, Scikit-learn, and Numpy.

### Project 4: Cloud Folder Android Application

- Created android application that allows transfer of diverse types of files between AWS and mobile phones. Retrieve files from AWS for use when needed.

**DIY Projects:** Small web projects using flask and ReactJS.

## ACTIVITIES

- Marketing Manager, Treasurer for South Asian Students Association raise awareness about South Asian Culture, through campus events.
- Deaton Scholar worked on Food Security, Environmental Sustainability case study.