

Professional Summary

Skilled Data Science Research Associate specialized in Machine Learning and Deep Learning techniques using Python. An insightful professional with 3+ years of experience ready to apply for a new role with room for growth and advancement.

Experience

- Extensive experience in creating Enterprise Web Applications using Python and Flask web Framework
- Expertise in building Classification, regression and clustering machine learning models for better understanding the patterns and future predictions using python
- Hands-on experience on creating REST APIs using Flask web framework
- Expertise in NLP libraries NLTK, Spacy, TextBlob
- Capable of handling the End to End data science project, handling any kind of data
- Experience in hosting the applications into public environments such as Bluemix, Heroku
- Basic knowledge on Amazon S3 bucket
- Excellent leadership skills to enable better decision making

Technical Skills

Programming Languages	MongoDB, MariaDB, SQLite, MySQL and Python
Web Technologies	HTML, JavaScript and CSS
Platforms	IBM Bluemix and Pivotal Cloud Foundry
Other Technologies	GitHub and Jenkins

Certifications

MongoDB for Java Developers from MongoDB University in December 2016

Professional Experience

February 2016 to April 2017

Miracle Software Systems, Inc.

Research Associate - Big Data

Worked as part of the Miracle Innovation Labs to look at various use cases and business challenges that can be solved and implemented with the MongoDB. Developed some java applications using MongoDB.

Roles and Responsibilities

- Did MongoDB concepts like Replication, Sharding, MapReduce
- Converted data from various data files to MongoDB database using Data Integration tool called as "Pentaho"
- Connected Tableau with MongoDB
- Stored LinkedIn data, Twitter data into MongoDB using Web Scrapping tool called "Octoparse"
- Stored Apache logs into MongoDB using "Fluentd"

April 2017 to Present

Miracle Software Systems, Inc.

Research Associate - Data Scientist

Project #1 | Car Image Recognition

Built a Keras-model, which predicts the given input belongs to which car model, car series and also says which part of the car have been damaged

Roles and Responsibilities

- Built a CNN keras-model which is trained with all different types of cars
- Implemented Backend with Python and created secured REST API
- Configured PCF services into python Application and hosted the application to Pivotal Cloud Foundry

Environment : PCF, Python, Flask, HTML and Keras

Project #2 | License Plate Recognition

Worked on OCR and OpenCV for License Plate Recognition in which the License Plate is detected, and characters are extracted from it in turn which

is compared with the database to get the details of the registered owner

Roles and Responsibilities

- Used SQLite database for storing the registered owner data

Environment : Python, HTML, Flask, KNN Algorithm and OCR

Project #3 | ITSM - Incident Ticket System Management

Using Python NLP, classified the tickets raised by the users into respective categories using the ticket description also determined the priority for the ticket using Naive Bayes and SVM algorithms respectively using the historical tickets data. Created an UI using Python Flask to display the appropriate category, priority and if any similar kind of tickets have been raised by the users in the past

Roles and Responsibilities

- Created REST API with Python
- Hosted the application to IBM Bluemix

Environment : Python, Flask, IBM Bluemix

Project #4 | Beverage Bottle Image Recognition

Knowledge on Beverage bottles Image Recognition which is used to find the no. of beverage bottles in a rack so that the rack is refilled with the bottles once it is empty. The model can also recognize the brand of the beverage bottle which is present and which bottle got completed

Roles and Responsibilities

- Created UI using HTML and JavaScript

Environment : Python, JavaScript/HTML/CSS and TensorFlow

Project #5 | Smart Recruitment with Resume Analysis

Using python NLP, extracted the text from resume pdf and checked against the skills from the job description file. Then the percentage is calculated against no. of skills matched with the requirement. This improves the filtration process.

Roles and Responsibilities

- Created UI using HTML and JavaScript
- Responsible for backend code using Python
- Pushed entire python application to Pivotal Cloud Foundry

Environment : Python NLP, HTML and PCF

Project #6 | PDF Comparison

Extracted the tabular form of data from the pdf's and compared two pdf's text to get the difference between them. Extraction of tabular data from the pdf's is done using "tabula" library in python and also comparison of the text from pdf's using "difflib" library. The difference output is generated as report in excel sheet.

Roles and Responsibilities

- Implemented the entire backend in Python

Environment : Python and Excel

Project #7 | Expense Receipts Reimbursement App

Used pre-trained model from the MLKit for Firebase and extracted text from the receipt. Using some regular expressions extracted total from the receipt and showed to the user. Created a basic Android application with this pretrained model

Roles and Responsibilities

- Created a basic android application to show total to the user whenever the image of the receipt is uploaded by the user

Environment : Firebase, Java and Android Studio

Educational Qualifications

Course	College/University Name	Year of Passing
B.Tech(IT)	Sri Vasavi Engineering College, Tadepalligudem	2015
Intermediate	Pragathi Junior College, Tanuku	2011

Declaration

I consider myself familiar with above mentioned aspects. I hereby declare that the information furnished above is true to the best of my knowledge.

Place : Visakhapatnam

Divya Lakshmi Sri Mutta

Date :