SRI VATSAV KUMAR, PATAPANCHALA

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SUMMARY

Current Graduate Student at Arizona State University pursuing MS in Computer Science. Looking for internship opportunities for Summer 2022 related to Software Engineering.

EDUCATION

MS in Computer Science **Jan 2021 - Dec 2022**
Ira A. Fulton Schools of Engineering CGPA 4/4
Arizona State University, Tempe, AZ
Relevant Coursework: Distributed Database Systems, Statistical Machine Learning, Foundation of Algorithms.

B. Tech. in Electronics & Communication Engineering **July 2015 – May 2019**
IIITD&M Kurnool, Kurnool, AP, India CGPA 8.19/10

INTERNSHIP/ WORK EXPERIENCE

Research Aide, SW IV, Arizona State University **May 2021 - Present**

- Currently working as Software Developer for AZ Community Water Source project, where my responsibilities include but not limited to developing web applications using DJANGO FRAMEWORK, PYTHON for backend and POSTGRESQL for database management.

Trainee Software Engineer, Preludesys India Ltd **July 2020 – Sep 2020**

- My primary responsibilities include but not limited to debugging, developing code of an existing project with the help of .NET FRAMEWORK with C# and VB.NET and manipulating relational data base management system (RDBMS) with MSSQL.

Intern, Preludesys India Ltd **Jan 2020 – Apr 2020**

- Learnt .NET FRAMEWORK with C# in developing web applications. Also learnt AJAX, JQUERY in JAVASCRIPT to enhance the development. Developed two demo web apps (Flight Booking System, Blood Donation App). Also learnt SDLC technologies like AGILE SRUM & WATERFALL models.

ACADEMIC PROJECTS

Statistical Machine Learning Project consisting of III parts **ASU, April 2021**

1. Classification task using Naïve Bayes Theorem and Logistic Regression Model using gradient ascent, reporting the classification accuracy for both classes in testing data.
2. Unsupervised Learning (k-means algorithm) on dataset consisting of 2-D points with given number of clusters (k) ranging from 2-10 and plotting objective function vs the number of clusters.
3. Designed a model using Deep Learning (Convolutional Neural Networks) with training data of 73,257 samples from SVHN (Street View House Numbers) dataset.

Smart Classroom **IIITD&M, March 2019**

- This project has proxy free attendance and power conservation functionality. This is developed with the help of PYTHON, Raspberry Pi Model 3, and MySQL as the database.
- Designed a circuit model which takes RFID tag signal as the input and executes the logic for power controlling and attendance system for students which controls proxy with the help of Camera Module installed with Raspberry Pi 3.

Arduino Based Automatic Plant Watering Systems **IIITD&M, December 2018**

- Developed prototype using Arduino for watering plants without human intervention with the help of soil moisture sensor and a DC Motor.
- This is achieved by comparing the sensor values against a threshold and signaling motor to pump accordingly with Arduino programming language.

CURRENT PROJECTS

i. Researching on developing sophisticated ML Algorithm in STOCK PRICE PREDICTION using LSTM method and clustering positive and negative trend news of company.
ii. My Portfolio, Recipe Book, and Shopping list Apps using ANGULAR JS FRAMEWORK. (Angular 12)
iii. API consisting of IIITD&M Alumni data using DOT NET FRAMEWORK API.

TECHNICAL SKILLS

Programming Languages: C, C#, JAVA, PYTHON, SQL.
Web Development: HTML, CSS, JAVASCRIPT, BOOTSTRAP, JQUERY, AJAX, DJANGO, .NET, ANGULARJS (Angular 12), REST API.
Machine Learning Libraries: NUMPY, SCIPY, PANDAS, MATPLOTLIB.
Databases: POSTGRESQL, MSSQL, MONGODB.
IDEs: VISUAL STUDIO, VS CODE, JUPYTER NOTEBOOK, NOTEPAD++
Other Tools: GIT, AWS – EC2.