AMULYA PRODDUTURI

Charlotte, NC, 28262 | 609-721-8140 | amulyareddyp15@gmail.com | https://www.linkedin.com/in/amulya-prodduturi-347751162/

EDUCATION

Master of Science – Computer Science | *University of North Carolina at Charlotte, NC , Jan 2020 to May 2021* ***(CGPA: 3.9/4.0)***
Bachelor of Science – Computer Science and Engineering | *NIT-Raipur, India ,* July-2014 to June-2018 ***(CGPA: 4/4.0)***

CORE PROFICIENCIES & SKILLS

Programming Languages/Web Technologies: Python, Java, C, C++, JavaScript, HTML, CSS, Nodejs, Angular,Mongo DB, MySQL.
Tools: AWS, WEKA, Jenkins ,Linux, IntelliJ, Eclipse, Visual Studio, Jupyter Notebook, Microsoft SQL server,Tableau, Oracle database.
Libraries: Numpy, Pandas, Matplotlib, Seaborn , Scikit-Learn
Technical Expertise: Algorithms, Datastructures, GIT, Web design ,Machine Learning, Data Mining, Data Science, Predictive analysis

PROFESSIONAL EXPERIENCE

Wipro Limited, Bengaluru, India (Project Engineer) July 2018 – Nov 2019

- Worked as a Web and Application Developer for a UK based energy firm and designed web modules using JSP,struts framework, and MySql database.
- Involved in full lifecycle of the application development using agile/scrum.
- Developed ELearning modules using captivate and RoboHelp for business requirements.
- Performed Quality Assurance on the web modules to discover design issues and development errors
- Automated the build script of code deployments using Jenkins

ACADEMIC PROJECTS

Solution to cold-start problem in Movie Recommender systems

- Developed a movie recommender system by focusing on the popularly known cold start problem by implementing Apriori, FP-Growth and constraint based FP-Growth algorithms.
- Pre-processed the movie lens data set using Aggregation and Sampling methods.
- Implemented Pearson and Cosine similarity techniques to determine similarity among the users.
- Used K-means clustering technique to classify users according to their interests.
- Evaluated the model by visualizing the Recall, Precision and Accuracy plots.

Sales Forecasting of Retail Clothing.

- Performed pre-processing of data on over a huge dataset using python, adjusting for inconsistent records.
- Predicted the sales of different product categories of a retail clothing store using Linear Regression, Decision Trees, Random Forest and Gradient boosting regression techniques.
- Calculated the variance inflation factor(VIF) and Feature Importance and dropped the variables which are highly collinear with the other variables.
- Evaluated the model using Mean Absolute Error, Mean Absolute Percentage Error and Root Mean Squared Error.

Personal Budget App.

- Developed an application using NodeJS, Angular and Mongodb to categorize expenses and track spending of users.
- Users can add the maximum allocated budget and utilized budget of a particular category and can view expense related information of any previous month, day and year.
- Visualization is done with different graphs using D3js javascript library.

Online Hospital Management.

- This website is built to make online appointment with the doctor's according to their availability and to check if a person has close symptoms of covid-19 according to the questionnaire filled by them.
- This portal is developed using Java, JDBC , Servlets and used MySql for database connectivity .
- Users can create a new account and login to make appointment with the doctors in a selected time slot ,view the profile and the history of their bookings. Admin can add New Doctors, View all the patients registered and the appointments made by theusers.

Fusion Event Management System.

- It is an application developed using NodeJS, Javascript, Express JS and MongoDB where users can find events happening anywhere.
- Users need to register themself in order to use this platform and they can act as both admin and patron roles.
- Users can organize an event and attend other events organized in any place.
- Registered users can view, create, update and delete the events they created.

PUBLICATION

- https://ieeexplore.ieee.org/abstract/document/9300068

CERTIFICATIONS

- AWS solutions architect and Data structures (UDEMY).
- Problem Solving and Introduction to programming using Python certification (HACKERRANK)