SHARAT KUMAR MARUWADA

GRADUATE STUDENT

Seeking fulltime opportunities. Interested in Data Science/Engineering, Software development and Application Development roles.

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maruvadaltis (github.com)

SKILLS AND INTEREST

- **Operating Systems:** Windows, Linux
- **Web Technologies:** JavaScript, HTML, CSS
- **Programming Languages:** C, Java, Python, PHP
- **Databases:** MySQL, Oracle, SQLite, QGIS, Firebase
- **Mobile Application Development:** Android Studio, React-native
- **Other Technologies:** Unity, Git, Raspberry Pi 4, Wireshark, MATLAB, Tableau, AWS, Google Cloud Platform.

EDUCATION AND CERTIFICATIONS

Master of Science, Computer Science and Engineering

GPA- 3.0/4.0

The University of Texas at Arlington, United States of America

Bachelor of Technology, Computer Science and Engineering (2014-2018)

GPA- 7.19/10

KIIT University, Bhubaneswar, Odisha , India 2014 - 2018

CERTIFICATION

#Android Application Developer

COURSES TAKEN

- *Design and Analysis of Algorithms*
- *Data Mining, Machine Learning, Data Analysis and Modelling*
- *Mobile Application Development*
- *Software Engineering Management, Design, Testing, Quality Assurance*
- *Database Systems ,Cloud Computing*
- *Computer Networking, Distributed Systems, Wireless Networking, IoT*

ACADEMIC EXPERIENCE AND PROJECTS

Luggage Manager — Android Application- *Software Engineering and Development*

- Aim of the application was to help android phone users manage and keep track of their luggage during air travel to avoid baggage loss.
- Designed and developed an Android application on Android Studio IDE. Google's Firebase was used to monitor and store the user generated data.
- Designed user-login, user-dashboard, manage trips and view upcoming-trips screen for the android phone users.
- Developed QR code generator and reader for storing, retrieval of the baggage information.
- The Application was developed using Agile principles, methodology and was tested for unit and integration testing before final deployment.
- Application was tested on the Android emulators and phones on version 4.2 or above .

Movie Mahal — Web Application- *Data Mining and Cloud Computing*

- Aim of the application was to develop a movie recommendation engine having search and classification capabilities.
- Deployed the application on Google Cloud Platform using cloud components like App Engine, Cloud Storage for storing data, Cloud Data flow, Apache Beam for Pipelining and BigQuery for Analytics.
- Designed and developed movie search feature for searching movies based on its title/plot by implementing tf-idf, cosine-similarity and kNN features .Following were some libraries used during development process - scikit-learn, Keras, NumPy, TensorFlow, Pandas and PyTorch in Python .
- Designed and developed classification features that predicts the genre of the movie taking respective plot as input. Training and testing datasets were split and were trained using multinomial Naïve Bayes classifier.

Margarita-Island— *Mobile Application Development*

- Designed and developed a travel assist app using React-native making it a cross-platform mobile application for iOS and android devices .
- The main aim of this application was to assist users/clients in the search for hotels, restaurants, beaches, and best events taking place on the island or any location detected on user/client phone.
- Designed , developed hotel, chef, dine-in, event and beaches screen view using JavaScript and React. Firebase database was used to handle and monitor the generated user data.
- Deployed the application on android phones above version 5.0 and posted it using Expo client.

Smart Traffic Management Using "Live" Object Detection — *Internet of Things, Computer Vision*

- The main objective of the project was to develop a "Smart Traffic Management System" that reduces engine idling at traffic check posts and thereby reducing pollution.
- The project was developed on Raspberry Pi 4 using the RPi camera module for image sensing and OpenCV library for image detection, recognition features.

Keyless Input System Using MPU6050 — *Internet of Things, Wearable Technology*

- The main aim of this project was to develop a keyless input system, where the user uses the touch gesture on any surface for giving input., e.g.- User taps twice on the surface, the input to the system is 2.
- Designed and developed on Raspberry Pi 4 single-board computer using accelerometer and gyroscope features of MPU6050 sensor.