RAMA TEJASWINI THOTAPALLI

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EDUCATION_____

Master of Science in Software Engineering | San Jose State University | GPA: 3.9/4.0   **[Graduation Date: Dec 2020]**
Relevant Coursework: Large Scale Analytics, Data Mining, Machine Learning, Data Structures and Algorithms.

Bachelor of Technology in Electrical Engineering | JNTU | CGPA: 8.1/10.0   **[June 2009 - May 2013]**
Relevant Coursework: C++, Java, RDBMS & SQL, Computer Networks, Power Electronics, EDC, EM.

SKILLS_____

Programming Languages: Python, Java, C++, R Programming.
Machine Learning: Predictive models, Regression, Classification, Clustering and Neural Networks (NN).
Python Tools: Scikit-Learn, Keras, Matlab, Tableau Dashboard, Pandas, Numpy, Visualizations, Matplotlib.
Web Technologies: JavaScript, Restful Services, NodeJS, ReactJS, HTML, CSS, AngularJS, SpringBoot.
Databases: MySQL, MongoDB (NoSQL Database), IBM DB2, Oracle RDBMS 11g.
Cloud Technologies: Amazon Web Services (AWS), Google Cloud Platform (GCP), Kubernetes.
Tools: GitHub, Visual Studio, Jupyter Notebook, Postman, WordPress, FileZilla, Docker, Jenkins.

PROJECTS_____

University Recommendation System | Personal Project   **Python, Machine Learning, Data Analysis, & AI**
- Designed Python Flask application for recommending universities to students modelling KNN (**95% accuracy**) with GRE and TOEFL scores. Conducted web scraping, data preprocessing, and normalization.
- **Technologies:** Python, Scikit-Learn, Pandas, Beautiful Soup, Matplotlib, Dataset crawled from gradcafe.com.

Detect Mental Health with Speech Emotion Recognition   **Deep Neural Networks, TensorFlow, LSTM, GRU**
- Created deep CNN, Random Forest and MLP networks to recognize emotions from speech.
- Performed speech segmentation, signal pre-processing, feature extraction, statistical analysis of emotions.
- **Technologies:** Python, Scikit-Learn, Pandas, Numpy, TensorFlow. Dataset collected from RAVDESS.

Credit Card Fraud Detection | San Jose State University   **Python, Machine Learning, Data Analysis, & AI**
- Trained credit card dataset to compare performance and accuracy of fraud detection with supervised learning models such as Logistic Regression, decision tree and SVM algorithms. **Achieved accuracy of 93% with LR.**
- Performed Data cleaning, data preprocessing, data transformation, and data visualizations.
- **Technologies:** Python, Scikit-Learn, Pandas, and Amazon Sage Maker. Dataset collected from Kaggle.

WORK EXPERIENCE_____

Software Engineer Intern | Cinequest   **[May 2020 - Present]**
- Built Raffle feature to support drawing contests and extended it to Creatics digital currency monetization.
- Enhance backend architecture, APIs, and responsive design (UI/UX) of existing features with design patterns.
- **Technologies:** SpringBoot, Java, Angular, jQuery, JavaScript, HTML5, CSS3, Bootstrap, MySQL.

Data Science & Analyst Intern | Arista Networks Inc.   **[Jan 2020 - May 2020]**
- Analyzed pricing patterns from product revenue data for business insights and developed a ML model with **87% of accuracy** to detect anomalies to help company in rectify pricing model and recover revenue by $3 million.
- **Technologies:** Python, R Programming, Tableau, Machine-learning model (Linear Regression), Data Mining.

Web Developer Student Assistant | San Jose State University   **[Mar 2019 - Jan 2020]**
- Directed a team of Hammer Theatre and College of H&A department's websites to showcase events performed.
- **Technologies:** HTML5, CSS, JavaScript, PHP, WordPress, and OU Campus.

Software Systems Engineer | Tata Consultancy Services   **[Nov 2013 - Aug 2017]**
- Processed real time credit card transactional data using Data Engineering techniques and Data Analysis.
- Built Full stack web application to analyze, process and display credit card information with Java restful Web services for backend applications. Build and deployed projects to AWS cloud.
- Initiated functional automation testing with SoapUI to reduce manual intervention, save time and cost by 16%.
- Led a team of 3 people to enhance the Commerce Server application to multiple platforms and regions.
- **Technologies:** Python, Restful Web Services API, HTML5, CSS, Bootstrap, RDBMS, IBM Web Sphere, SoapUI.

ACHIEVEMENTS_____

- TCS: Star of the Month Award for exceptional performance by delivering 3 projects in sprint of Q3-2016.
- Appreciation for automating test cases with SoapUI, to reduce manual effort and time by 16%.
- Won second prize in Data Analysis Hackathon at Anthem.ai held in November 2019.