Rema Veeranna Gowda

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EDUCATION

Master of Science, Computer Science – CGPA 3.7 **Aug 2021 – May 2023**
University of Florida, Gainesville

Bachelor of Technology, Information Science – CGPA 3.9/4.0 **Aug 2016 – Aug 2020**
BMS Institute of Technology, Bangalore, India

WORK EXPERIENCE

Software Developer Intern | Amazon | *Arlington, Virginia* **Aug 2022 – Dec 2022**

- Coded and designed an extensible and maintainable solution to submit Budget approvals for warehouse planning using an API gateway, lambda functions, AWS cloud 9, dynamo DB, and CloudFormation.
- Architected and implemented a solution for data consumption by the downstream micro-service using AWS lambda function, reducing data processing time by 60% and achieving a 99% message delivery rate through SQS, and SNS.
- Reduced the deployment time by 80% by setting up the Hydra Integration Framework for the Budget Pipeline.
- Wrote integration test cases for every APIs in the Budget Microservice, leading to a 90% reduction in the number of bugs discovered during testing.

Software Engineer Intern | Deloitte | *Austin, Texas* **Jun 2022 – Jul 2022**

- Built an ML model to process the data applied to the custom flair model to achieve an accuracy of 98% on client data.
- Explored and applied the Rubrix tool for weak supervision, resulting in a 60% reduction in the need for labeled data for the client and significant time and cost savings.
- Integrated active learning into the model which resulted in a 20% jump in accuracy.

Software Engineer | Gramener | *Bangalore, India* **Oct 2020 – Aug 2021**

- Extracted information from unstructured data existing in formats such as document, pdf, excel, and image using OCR and other tools resulting in an 80% reduction time for the next phase of text mining.
- Designed and set up an ML model for automatic attribute mining of 30+ features from 6 million documents, including unit testing and continuous integration with 98% accuracy.
- Identified and resolved more than 50 bugs during the extraction process and set up an environment for cloud servers for batch release of the product.

Software Engineer Intern | Bharat Electronics Limited | *Bangalore, India* **Jan 2020 – Mar 2020**

- Introduced LSTM and GRU-based ML model to forecast traffic congestion based on real-time data collected from city sensors, achieving a mean absolute percentage error of 10% and accuracy of 97%.

TECHNICAL SKILLS

Programming Languages: Python, Java, Golang, Dagger Framework, R, C, C#, F#, React.js, Node.js, Express.js, JavaScript, Angular, HTML, CSS, Bootstrap, AJAX
Databases/ML Technologies: MySQL, MongoDB, Oracle, SQL, Tensor Flow, PyTorch, Keras, Numpy, Scikit-Learn, Pandas
AWS: Cloud 9, Dynamo DB, API Gateway, CloudFormation, Lambda Functions, SNS, SQS
Others: Web Services, REST API, SOAP, Azure, GCP, Spring, Agile, GIT, Junit, CI/CD, SDLC, Jenkins, Docker

PROJECTS

Road Safety Analysis System

- Analyzed over 100,000 accident records using the Oracle Database System to benefit vehicle insurance companies.
- Devised an application using the .NET (Web services) and Angular frameworks to visualize insightful trends.

SMS Reservation System

- Engineered an application to help businesses increase booking efficiency by 80% through streamlined communication and automation via SMS technology (Twilio and Node.js).

Film Critique System

- Deployed a web application using agile methodologies with features to add movies, provide ratings, and search movies that help moviegoers find the best film, resulting in a 95% user satisfaction rate.

Distributed Twitter Clone

- Established multithreaded, client-server emulation by utilizing Akka actors, and F# and scaled to 20,000 users.

Bitcoin Mining

- Implemented the intensive task of mining a bitcoin with up to 7 leading zeros utilizing the Akka model, F#.

Pathway-Based Clustering for Molecular Subtyping of Prostate Cancer

- Built an ML model to cluster prostate cancer samples into 6 molecular sub-types based on gene expression data with an accuracy of 97%.

PUBLICATIONS

- "Employee Attrition Prediction using Stacking and Evaluation", International Research Journal of Engineering and Technology (IRJET), Volume 8, Issue 8, August 2021

LEADERSHIP SKILLS

- Mentored and collaborated with a group of 13 undergrad students to help them advance in education and career.
- Coached 34 volunteers, and organized a key event of a student organization at the University of Florida for over 900 guests.