Shrinidhi Kadadakatte Ramesh

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EDUCATION

Ramaiah Institute of Technology, Bangalore

B.E in Information Science and Engineering CGPA 9.49/10

Selected Coursework: Data Structures, Design & Analysis of Algorithms, Operating Systems, Computer Networks, Database Management, Machine Learning, Natural Language Processing, Deep Learning, Distributed Computing, Cloud Computing

EXPERIENCE

Software Engineer, JPMorgan Chase & Co. DEC 2021 - PRESENT

Working with Commercial Banking team in Full-Stack development, involved in developing microservices and micro front-end architectures for an application to help bankers analyse the profitability of credit and non-credit facilities for commercial clients.

Associate Software Engineer in Test, MathWorks SEPT 2020 - DEC 2021

Worked with the MATLAB Coder team responsible for features related to code generation from MATLAB to C/C++. Developed a new workflow for a test harness infrastructure and extended its capabilities to perform feature-based tests. I was involved in the design and development of test infrastructure and automation.

Engineering Development Group Intern, MathWorks JAN 2020 - JUN 2020

Developed an automation tool to generate classes (with methods) from user-defined functions using Abstract syntax tree. Provided technical support and resolved numerous customer-reported issues.

AI Intern, MIMYK, IISc JUN 2019 - AUG 2019

Developed an Automatic Speech Recognition based intelligent assistant for doctors to interact hands-free (using voice command) during endoscopic procedures to record vital information and help them follow the safety checklist to avoid any accidents. Used intent and trigger-based conversational bot approach to design the assistant.

PROJECTS

Vernacular Code-Switching in Intelligent Assistants

The project aims at facilitating multilingual speakers by handling vernacular code-switched queries of users while conversing with intelligent assistants and providing suitable responses. I focused on code-switched intent classification and keyword extraction using the Conditional Random Fields model.

Solving issues of Data Sparsity and Cold Start in Recommender Systems

Collaborative filtering using a Regression-based approach with Grey Wolf optimization algorithm to solve data sparsity. Used Content-based filtering approach with Cosine similarity and Word embeddings to solve the issue of Cold Start.

Anti-CyberBullying API

A Flask-based REST API that identifies abusive posts and prevents them from posting on social media platforms. Initially used Random forest classifier later improved accuracy using LSTM and RNN based text classification model. Developed an Android chat application to demonstrate the use of API.

SKILLS

Languages: Python, Java, JavaScript, C/C++, MATLAB, MySQL, MongoDB (Databases), HTML & CSS

Frameworks & Technologies: Flask, J2EE, Android Studio, Heroku, AWS Lambda, EC2, Google Firebase, Jira, Git

PUBLICATIONS

Collaborative Filtering based Recommender System using Regression and Grey Wolf Optimization Algorithm for Sparse Data – IEEE International Conference on Communication and Electronic Systems (ICCES 2019) (Scopus indexed)

Multi-agent based Systems in Machine Learning and Its Practical Case Studies – Machine Learning for Intelligent Decision Science, Springer Nature Singapore, 2020 (Scopus indexed)

AWARDS & ACHIEVEMENTS

Academic Rank Holder - Bronze Medal (3rd Rank) ISE 2016-2020

Best UG Project Award - Vernacular Code-Switching in Intelligent Assistants

Winner - MLH Hackathon organized by GitHub - Project on Anti-Cyberbullying API

Winner - Smart India Hackathon (Intra-College level) - Project on Offline Payment

Finalist - Top 10 at National Coding Competition IIT Bombay TechFest

VOLUNTEER ACTIVITIES

TEDxMSRIT – Hospitality and Social Media Publicity team volunteer

RIT TechFest (IGNITE 2016) – Event Management team volunteer

Quora Meetups – Organising Team Member