INDHUJA RAVI

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EDUCATION

San José State University *May 2021 (expected)*
Master of Science in Computer Science, *GPA: 3.78 / 4*
Recent Coursework: Database System Principles, Server Web Programming, Cloud Computing, Machine learning

PSG College of Technology *May 2018*
Bachelor of Engineering in Computer Science, *GPA: 8.23 / 10*
Relevant Coursework: Data Structures, Design and Analysis of Algorithms, OOPS, Artificial Intelligence, UNIX internals

CERTIFICATION

Certified AWS Cloud Practitioner (Validation ID: K0J0JL8KKMEQQBKD)

TECHNICAL SKILLS

Programming Languages	Python, MySQL, C, C++, Java, R, PHP, HTML
Libraries, Toolkits and OS	AWS, Django, Linux, TensorFlow, OpenCV, scikit-learn, SQLAlchemy, Neo4j Graph Database, REST, Pytest, Boto3, Docker, Vmware ESXi, Microsoft Azure, Selenium, MATLAB
Project Management and Version Control	Agile, Jira, Git, Bitbucket

EXPERIENCE

Intellus Software India Pvt Ltd, Bangalore - *Software Developer* May. 2018 - July 2019

- Developed a REST based A/B comparison tool using Django that allows side-by-side, visual comparison of search results from two different search strategies
- Set up a batch processing data pipeline for event logging of clickstream data with AWS Lamda, Kinesis, Redshift, and S3 for real time data analysis
- Enhanced product features for business development by writing APIs and modifying design of existing SQL Database

Invaria Tech India Pvt Ltd, Bangalore - *Research Intern* Jan. 2018 - April 2018

- Built a complete UI test automation framework using Pytest and Selenium to periodically run tests and enabled automatic rerun of failed test cases
- Scheduled cron jobs to forward e-mails of the test report and lambda functions to track any failures for immediate remediation

PROJECTS

Locality based Recommendation System using Neo4j

- Engineered a recommendation system using the Yelp dataset and the OpenStreetMap data extracted by the OverPass API
- Utilized the APOC and Graph Data Science plugins to create nodes and relationships to mimic an actual map
- Enhanced the recommender with filters such as radial distance, business category, ratings, and cost

Speech transcription and text summarization using AWS

- Built a load balanced, highly available speech to text transcriber and summarizer with AWS: EC2, EBS, S3, Lambda, Transcribe, SES, and Route 53
- Established automated emailing of the transcription and summary to the user once created
- Engineered a user dashboard to allow user customization of audio, transcription, and summary files

Emotion Detection from Facial Expressions

- Implemented HMM, CNN, and a PCA with XGBoost model to detect emotions using facial expressions from the CK+ dataset
- Determined the impact of neutral facial states on correctness

Image Classification between cats and dogs

- Developed an ANN model to classify images of cats and dogs in Kaggle's Assira dataset
- Extended the potential of the classifier by allowing categorization of images of other animals into a separate third class