Kshitij Mani

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EDUCATION

Bachelor of Engineering (B.E.) - Computer Science & Engineering **Expected June 2020**

Bangalore Institute of Technology [GPA: 8.8/10]

- **Courses**: Data Structures, Algorithms, Artificial Intelligence, Machine Learning, Object Oriented Programming, Unix & Shell Programming, Database, Computer Architecture

PROFESSIONAL EXPERIENCE

Software Development Intern – ODCEM Technologies Private Limited **Jan 2020 – Present**

Technologies used: Java Spring Boot, Hibernate, Elasticsearch, Redis, RabbitMQ, MySQL, Docker

- End to End integration of "Facebook Messenger and Messenger Bot" to the current system which worked on the deprecated conversation APIs of Facebook.
- Migrated storage of multiple services from Amazon S3 to Google Cloud Storage.
- Developed the security module for Reddit platform integration to the existing system.
- Graph API upgrades in services using them and multiple feature addition like editing Facebook replies from tool.
- Conceptualized and implemented a solution to mitigate application failure in case of heavy webhook load.

Project Trainee – **IBM** **Jan 2019 – Mar 2019**

Project: "Automated Insights"

Technologies used: Java Spring, Apache Couch DB, Angular6, IBM Cloud

- Built a tool to enable users to see dynamic narratives based on any company's latest quarterly results.
- Leveraged Natural Language Generation and Processing to convert tabular and financial data into easily understandable English sentences.
- Implemented processing techniques to significantly reduce user's request time and designed a smart API token management.
- Conceptualized efficient synchronization technique for the various external APIs used in the system.
- Built a migration script for movement of data around object storages using Spring Batch.

PUBLISHED WORK

Research Paper - A Web Usage Mining Approach Based on Compact Prediction Tree **2019**

Evaluating the performance of Compact Prediction Tree (CPT) and CPT+ algorithms with respect to the existing techniques in the field of Web usage mining and more specifically web page prefetching algorithms.

ACADEMIC PROJECTS

Research – Deepfake Detection (Ongoing) **Feb 2020 – Present**

Analysis of current Deepfake detection methodologies and evaluation of changes that can be inducted in order to improve the performance of these methodologies.

Speaker Diarization and Speech Transcription System **2019 - 2020**

A system based on Unbounded Interleaved-State Recurrent Neural Network for speaker diarization followed by speech transcription using the "AMI Meeting Corpus" data.

Sentiment Analysis in Python **2018**

Used the "Large Movie Review Dataset" made available by Stanford University to train a Logistic Classifier for predicting the tone of a given movie review. The model was able to achieve an accuracy of approximately 88%.
(github.com/manikshitij/sentiment-analysis)

TECHNICAL SKILLS

• Python | R	• Pandas | Numpy	• Java | C	• Spring Boot	• OpenCV
• NLP	• Scikit-Learn | Tensorflow	• JavaScript | HTML | CSS	• MySQL | Oracle	• AWS

LEADERSHIP & ACHIEVEMENTS

- Represented my state in Indian National Junior Science Olympiad (INJSO) and Indian National Astronomy Olympiad (INAO).
- Consistently been in the top 15% of the class in school as well as college.
- Led a tree plantation drive, working with Tarumitra - an UN recognized organization.