Shivangi Dattatrey Kochrekar

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EDUCATION

University of Southern California (USC), Los Angeles, United States of America

Expected May 2024

Master of Science in Computer Science

GPA: **3.85**/4

Courses: Analysis of Algorithms, Database Systems, Web Technologies, Game Development, Information Retrival

Sardar Patel Institute of Technology (SPIT), Mumbai, India

May 2022

Bachelor of Technology in Computer Engineering

GPA: **9.53**/10

Courses: Object Oriented Programming, Advanced Data Structures, Operating Systems, Computer Networks

TECHNICAL SKILLS

Languages: Python, Java, C#, C++, C, Dart, HTML5, CSS, JavaScript, PHP, Typescript, MATLAB, XML

Databases/Operating Systems: MySQL, MongoDB, PostgreSQL, Oracle, Firebase, Linux, Ubuntu, Windows, MacOS **Frameworks/Tools:** Django, Angular, React, Nodejs, .NET, Hadoop, Android Studio, Google Cloud Platform, Git, Docker

PROFESSIONAL EXPERIENCE

Jr. Data Science Intern | Zummit Infolabs, India

Jan 2022-Jun 2022

- Utilized the DeepFace to conduct identity verification by comparing faces of candidates with government-issued IDs.
- Analyzed 120 model configurations out of which Dlib with retinaface backend & Euclidean distance performed the best.
- Processed 500 self-curated real-time interview audio clips dataset using Librosa and deployed SVM for Classification.
- Achieved an accuracy of 83.3% for Facial Recognition and an accuracy of 89% for the Audio Confidence Model.
- Increased accuracy by 17% of Keyword Score and Answer Similarity Model.

Software Developer Intern / Asphalt Autotech Pvt. Ltd. (Protto), India

Jun 2020-Aug 2020

- Developed 30+ **REST APIs** in PHP, integrated into the mobile applications (<u>protto</u>) and the website (protto.in).
- Revamped the front-end of the app in Flutter and launched it on Google Play Store, which has crossed 10k+ downloads.
- Acquired data from 28 tire companies to store in inventory by programming an automation script using Beautiful Soup.
- Reduced response time by 20% and made query execution more efficient by optimizing SQL queries.

PROJECTS

Woodsy Wayfinder: Parcel Puzzles | Unity, C#, WebGL, Firebase, Python, Git

Sep 2023-Dec 2023

- Hosted a puzzle-strategy game with the goal of packing and delivering packages on <u>GitHub Pages</u> using WebGL build.
- Engineered core gameplay mechanics: algorithm to pick and pack the Tetris pieces and algorithm for scoring system.
- Designed the challenge game levels based on the **real-time data analytics** from users leveraging Firebase and Python.

Yelp Services Web-App and Mobile Application | HTML/CSS, JavaScript, MVC, JSON

Sept 2022-Dec 2022

- Deployed 2 independent websites; Angular and Node.js based web-app on GCP and developed an Android App (Java).
- Displayed data from Yelp as per user demands to create reservations and maintained the reservation data across sessions.
- Integrated ipinfo, Google Geocoding, and various Yelp APIs to fetch and present results in a responsive manner.

Prioritization of Districts For COVID-19 Vaccine Administration | Pandas, NumPy, Time Series Feb 2021-Aug 2021

- Innovated a model that prioritizes regions for the distribution of the COVID-19 vaccine based on 8 parameters.
- Clustered 32 districts using the K-means, which used the output of the Forecasting model (SARIMA) as one of its inputs.
- Prioritized the resultant 6 clusters leveraging **Simple Additive Weighting**. Delineated policy for distribution of vaccine.

Classification of Fraud Calls by Intent Analysis of Call Transcripts | NLTK, Oversampling Aug 2020-May 2021

- Engineered a Machine Learning model that classifies fraud calls by Intent Analysis of nearly 2000 call transcripts.
- Performed text processing on the data by removing punctuations and stop words, converted digits to words and stemming.
- Attained an accuracy of 97.21% after resampling the data and classifying it utilizing Naïve Bayes and CNN (DOI).

College Pro | Java, Inheritance, Encapsulation, Firebase, Android Studio, Git

Jun 2020-Oct 2020

- Proposed an app where students can keep track of all college events and assessments, and admins can update events.
- Structured Firebase to store the user, events, and favorites details and followed Object-Oriented Programming paradigm.
- Implemented real-time data synchronization so that users can receive notifications for upcoming events.

Car Rental System | C++, Boost, SQL

Aug 2019-Dec 2019

- Single-handedly made a platform to rent cars for some time with an admin dashboard and report generation features.
- Implemented features such as user login, car inventory management, reservation system, and notification system.
- Optimized code to ensure seamless handling of large volumes of data and multiple requests concurrently.

HONORS AND INVOLVEMENT

Contributor, Machine Learning Domain, Girlscript Winter of Coding 2021

Made 5+ open-source contributions to Girlscript Winter of Coding 2021 to construct the largest multilingual repository.

CS@SC Teaching Assistant at USC Viterbi K-12 Center, taught Java, Python, Game Development, and Robotics.