Mihika Gaonkar

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Education

University of Southern California   **Aug 2023-present**
- Master of Science in Computer Science-Artificial Intelligence
- Relevant Coursework: Foundations of Artificial Intelligence, Applied Natural Language Processing

University of Mumbai - Thadomal Shahani Engineering College   **Aug 2019-May 2023**
- Bachelor of Engineering in Computer Engineering   CGPA: 9.1
- Relevant Course work: Python Programming, Probabilistic Graphical Methods, Artificial Intelligence, Machine Learning, Deep Learning, Quantitative Analysis

Technical Skills

Programming Languages : Python, C, Java
Libraries/Frameworks : TensorFlow, scikit-learn, NumPy, pandas, Matplotlib, Beautiful Soup, OpenCV, NLTK
Tools/Platforms : Jupyter Notebook, Google Colab, Power BI, Google Data Studio, Git, GitHub
Web Technologies : HTML, CSS, Django, Flask
Databases : MySQL, PostgreSQL, SQLite

Work Experience

Data Science Intern | Worley India Private Limited   **Jun 2021-Sep 2021**
- Performed image preprocessing techniques such as threshholding, blurring and template matching using OpenCV
- Utilized Pytesseract package and Microsoft Azure OCR API for Optical Character Recognition
- Developed and tested a web-based tool to ensure a seemless user interaction

Projects

Vulnerability Detection in Source Code | TensorFlow, NumPy, GloVe model   **Aug 2022-Mar 2023**
- Constructed an application to identify vulnerabilities, such as SQL Injections and Cross-Site Scripting attacks, in source code
- Cleaned and vectorized 4.3 GB of data using GloVe model
- Trained a Long Short Term Memory model and obtained an accuracy of 83%

OTC CatchUp Analysis Dashboard | Power BI, Google Data Studio, Beautiful Soup, pandas   **Feb 2022-Mar 2022**
- Created a visualization dashboard to analyze OTC CatchUps-online technical discussions   Code
- Extracted and cleaned data for storage in csv files for visualization purposes   Demo
- Conducted data analysis and created visualizations with PowerBI to obtain insights

Book Recommendation System | Flask, NumPy, scikit-learn, Elasticsearch, Beautiful Soup   **Nov 2021-Jan 2022**
- Developed a web application that suggests books based on previously liked books by users   Code
- Applied web scraping on Goodreads to compile a dataset comprising more than 20,000 books spanning various genres
- Employed cosine similarity for the generation of content-based recommendations
- Utilized Elasticsearch to optimize retrieval speed when fetching entries from the database

FakeStat | scikit-learn, NumPy, Tweepy, Django, HTML, CSS   **Jan 2021-Mar 2021**
- Crafted a web application to detect fake news using Random Forest model with an accuracy of 94%   Code
- Performed a comparative study between Random Forest, Decision Tree and Logistic Regression algorithms
- Deployed a Twitter bot to detect fake news on the platform

Invisibility Cloak | OpenCV, Flask, HTML, CSS, Bootstrap   **Oct 2020-Dec 2020**
- Designed a web application to explore image processing techniques such as thresholding, masking and contouring

Extracurricular activities

Winner of the national level street play competition **Aghaaz** at IIM-Ahmedabad   **Jan 2023**
Selected as a mentee at **Amazon ML Summer School** amongst **60000** applicants   **Jul 2022**
Organized **15+** technical events, monitored a community of **600+** members and collaborated
with a team of **13** people as a **Core Team Member of Google Developer Student Club**-TSEC.   **Aug 2021-Mar2022**
Produced content as the **Editor** of the official college magazine, **TSEC Digital Diary**   **Aug 2020-Apr 2021**
Volunteered at **Vatsalya Trust, Mumbai** to teach over **50** students   **Mar 2017-Jun 2023**