Mihika Gaonkar

mihikagaonkar.me | mihikagaonkar | mihikagaonkar | mihikagaonkar | mihika831@gmail.com

Education

Bachelor of Engineering in Computer Engineering — **2019 — 2023 (expected)**
University of Mumbai - CGPA: 9.24/10 (Sem-VI)

Higher Secondary Certificate (12th grade) — **2019**
Pace Junior Science College - Percentage: 79.4%

Secondary School Certificate (10th grade) — **2017**
Auxilium Convent High School - Percentage: 94%

Technical Skills

Programming Languages	Python, C, Java
Libraries/Frameworks	TensorFlow, scikit-learn, NumPy, pandas, Matplotlib, BeautifulSoup, 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 — **Jun 2021 — Sep 2021**
Worley India Private Limited — Mumbai, India

- Worked on image preprocessing using OpenCV.
- Worked with Pytesseract and Microsoft Azure OCR for Optical Character Recognition.
- Tested the web based tool to ensure a smooth user experience.

Projects

Vulnerability Detection in Source Code | TensorFlow, NumPy, GloVe model — **Aug 2022 — present**

- An application to detect vulnerabilities such as SQL Injections and Cross Site Scripting attacks in source code.
- Cleaned and vectorized data using GloVe model.
- Trained a Convolutional Neural Network on source code snippets.

OTC CatchUp Analysis Dashboard | Power BI, Google Data Studio, Beautiful Soup, pandas — **Feb 2022 — Mar 2022**

- A visualization dashboard to analyze OTC CatchUps — online technical discussions of an open-to-all community.
- Scraped and cleaned data to present it in relevant format.
- Analyzed data using data visualization tools and derived results.
- Code | Demo

Book Recommendation System | Flask, NumPy, scikit-learn, Elasticsearch, BeautifulSoup, HTML, CSS — **Nov 2021 — Jan 2022**

- A web application which recommends books based on already liked books by the user.
- Scraped Goodreads to create the dataset.
- Used cosine similarity to generate Content Based Recommendations.
- Used Elasticsearch to make faster searches.
- Code

FakeStat | scikit-learn, NumPy, Tweepy, Django, HTML, CSS — **Jan 2021 — Mar 2021**

- A web application and a Twitter bot to detect fake news using Random Forest model with an accuracy of 94%.
- Performed a comparative study of Random Forest, Decision Tree and Logistic Regression on the data.
- The Twitter bot writes a comment to the Tweet made specifying whether the news in the Tweet is fake or not.
- Code

Invisibility Cloak | OpenCV, Flask, HTML, CSS, Bootstrap — **Oct 2020 — Dec 2020**

- An application by which the user appears to be invisible on using a cloth of a specific colour.
- Supports option to enter the RGB value of the colour of the cloth.

Co-curricular activities

Amazon ML Summer School — **Jul 2022**

- Selected for the program which covered 8 Machine Learning topics including Probabilistic Graphical Models and Causal Inferencing.

Core Team Member, GDSC TSEC — **2021 — 2022**

- Organized events for students to learn new tools and technologies.

Editor, TSEC Digital Diary (College Magazine) — **2020 — 2021**

- Created content and proof read articles for the magazine.

Volunteer, Vatsalya Trust, Mumbai — **2017 — present**

- Taught Mathematics, Science and English to 9th and 10th grade students.