

# Mahek Sota

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LinkedIn | Portfolio | GitHub

## Education

- **University of Southern California** Los Angeles, CA  
*Master of Science in Computer Science;* Aug 2022 - May 2024
- **Mumbai University** Mumbai, India  
*Bachelor of Technology in Computer Science;* Aug 2018 - Jun 2022

## Technical Skills

**Programming Languages:** Python, C++, C, Java, Javascript, SQL, PHP

**Frontend Development:** React, Angular, HTML, CSS

**API Development :** NodeJS, Flask, REST API, MySQL, MongoDB

**Machine Learning :** PyTorch, Tensorflow, Computer Vision, scikit-learn, Keras, NLP, NLTK, spaCy, TextBlob, ChatterBot, Numpy, Matplotlib, Pandas, OpenCV, Tkinter, Streamlit

**DevOps :** AWS (S3, EC2), Google Cloud, Docker, Linux

**Others :** Git, GitHub, Tableau, Android Studio, PowerBI

## Experience

- **Machine Learning Intern**, Friends for Inclusion Dec 2021 - Jan 2022
  - Designed and developed an innovative **audiobook** tool for visually impaired users. Used Long Short Term Memory to develop the model. Achieved an exceptional **80% accuracy improvement in language translation**.
- **Front End Developer Intern**, Ashtech Jun 2021 - Aug 2021
  - Spearheaded the enhancement of website visual coherence through consistent fonts, formatting, and layout, resulting in increased **customer satisfaction**. Integrated payment portals, survey forms, and language translation features, **improving user experience and global accessibility**.
  - Customized templates for clients, **optimizing site responsiveness by 100%** for cross-device compatibility. Interacted directly with clients to gather requirements, ensuring their needs were met in website customization.

## Projects

- **Event Finder: React Application**
  - Developed and launched "Event Finder," a **React application with Node.js backend**, leveraging **Ticketmaster API** for event discovery and details, **IPinfo API** for user location, and **Spotify** for artist details.
  - Implemented end-to-end integration of diverse APIs
- **Work It: Fitness Web Application**
  - Superheaded the development of a **multi-functional website** featuring a **Chatbot**, **Video Call Integration**, **Recipe Recommender System (4000 recipes)**, and **Calorie Counter**. Achieved **90% accuracy** for the Chatbot and **98%** for the Recipe Recommender System using **Web Development tools (HTML, CSS, JavaScript, React)**, **Python modules (ChatterBot, BeautifulSoup)**, and **machine learning algorithms (NLP techniques - cosine similarity, Word2Vec)**.
  - Demonstrated leadership by presenting the project to a diverse audience, effectively communicating both technical details and user-friendly aspects.
- **RNN and LSTM Model for Sentimental Analysis**
  - Implemented RNN and LSTM models for sentiment analysis on Amazon reviews, achieving an **80% accuracy rate**. Used different word embeddings for pre-processing. Word2Vec provided the greatest accuracy.

## Involvement

- **Teaching Assistant**, Database Systems (CSCI 585) Jan 2023 - Jun 2023
  - Facilitated student learning by **conducting office hours** and **assisting with exam-related tasks**, including question curation and paper checking.
- **Placement Cell**, Student Envoy May 2021 - May 2022
  - **Streamlined hiring process** by coordinating with recruiting companies and students, maintaining and updating relevant databases.
- **Rotaract Club of Mumbai Ghatkopar**, Secretary May 2020 - Jun 2021
  - Led a 50-member club, **overseeing execution of over 100 projects and managing relations** between district and parent rotary through negotiation and communication
- **IETE**, Technical Executive May 2019 - May 2020
  - Organized and led technical workshops on **game development and Python training** for juniors, attracting over 100 attendees. Designed and deployed committee's website.