

Sanai Divadkar

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Education

University of Southern California; GPA: 3.65/4

Aug 2023 – May,2025

Masters in Computer Science

Los Angeles, CA

Manipal University Jaipur; GPA: 3.84/4

Aug 2019 – May,2023

Bachelors in Information Technology, Minor Data Science

Jaipur, India

Technical Skills

Languages: Python, Java, C/C++, HTML/CSS, JavaScript

Developer Tools: VS Code, Eclipse, AWS, Docker, Kubernetes, Maven, Spring Boot, Excel, Tableau, MySQL, PostgreSQL

Technologies/Frameworks: Linux, Jenkins, Bitbucket, JUnit, Jira, Slate, TensorFlow, SKLearn, Keras

Experience

University of Southern California

Aug 2023 – Present

Grader | *ITP 265-Object Oriented Programming*

Los Angeles, CA

- Mentored students and assisted Professor Kendra Walther in preparing course materials, questions banks and grading assignments.
- Provided timely and constructive feedback to enable students to reflect on their performance and understand the areas of improvement.

J.P Morgan Chase

Feb 2023 – May 2023

Software Engineer Intern | *Java, Maven, Spring-Boot, AWS*

Mumbai, India

- Migrated Monolithic Applications to cloud Native Micro-services for better scalability, robustness and fault tolerance.
- Developed a service to automatically perform a set of unit tests daily on a product in development in order to decrease time needed for team members to identify and fix bugs/issues by 20% and reducing software defects by 65%.

Manipal University Jaipur

Mar 2022 – Oct 2022

Research Assistant | *Python, SQL, Numpy, Pandas*

Jaipur, India

- Examined and assessed pre-existing models for detecting fake news with an aim of establishing a connection between data and model approaches, including deep learning, machine learning, and ensemble methods.
- Published 2 Research Papers in IEEE Conference under the guidance of Professor Shalini Puri. ([Link](#))

Projects

Fake News Detection | *Python, Matplotlib, Pandas*

Jan 2022 - March 2022

- Leveraged traditional supervised learning models (Random Forest, SVM, Decision Tree) for binary classification on a pre-processed diverse dataset of news articles (real and fake).
- Engineered relevant text-based features, including TF-IDF, vectors and word embeddings (Word2Vec, GloVe).
- Achieved 99.47% accuracy, performed cross-validation, hyperparameter tuning to further optimize performance.

Book Recommendation System Using Collaborative Filtering | *Python, SQL, Jupyter*

Feb 2021 - Jul 2021

- Implemented collaborative filtering algorithms, including user-based and item-based approaches, to generate book recommendations. Created comprehensive documentation to make it accessible to technical and non-technical users.
- Optimized code and database queries, achieving a 30% faster recommendation generation. Conducted thorough model evaluation using MAE, RMSE, and Precision-Recall to assess and enhance recommendation quality.

Awards and Honors

Deans List

May 2023

Manipal University Jaipur

Jaipur, India

- Certificate of Achievement given to top 2% in the department

Extracurricular

Office of Admissions and Scholarships

Aug 2023 – Present

Student Worker, University of Southern California

Los Angeles, CA

- Provided administrative support by assisting with data entry, document management, and customer inquiries.

LearnIT, Departmental Club of IT

Aug 2021 – May 2022

General Secretary, Manipal University Jaipur

Jaipur, India

- Organized and led 2 weekly sessions, comprising workshops, coding boot camps, hackathons, and alumni interaction, resulting in a 40% increase in club membership and 60% increase in member coding abilities.
- Managed a diverse team of 100+ members, delegating tasks and responsibilities effectively.
- Encouraged networking, knowledge sharing and promoted inclusivity and diversity among all club members.