# Manasi Thonte

Los Angeles, California

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## EDUCATION

**University Of Southern California** — Jan 2024 – Dec 2025
*Master's in Applied Data Science -**CGPA**- 4.0/4.0* — *Los Angeles, USA*

**Pune Institute Of Computer Technology** — Aug 2018 – July 2022
*Bachelor of Engineering in Electronics and Telecommunication-**CGPA**- 9.26/10* — *Pune, India*

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C++, SQL, HTML, Javascript, CSS.
**Frameworks/Tools:** Selenium, Postman, Excel, Power BI, Tableau, Scikit Learn, PyTorch, XGBoost, Hadoop, PySpark, GitHub, MongoDB, Firebase, AWS, MATLAB, JDK, React.
**Skills:** Data Structures and Algorithms, Devops, Data Analysis, Data Visualisation, Natural Language Processing, Database Management, Machine Learning, CI/CD, API Design, REST APIs, Unix, Linux, Statistics, NoSQL, Big Data Analytics, Data Modelling.

## EXPERIENCE

**USC Viterbi School of Engineering** — Sept 2024 – Present
*Research Assistant* — *Los Angeles, USA*
- Constructing MRI **preprocessing pipeline** with FSL for motion correction, normalization, and spatial smoothing.
- Optimizing data workflows to ensure high reliability for statistical and **machine learning** analyses.

**USC Information Sciences Institute** — Jan 2024 – May 2024
*Student Researcher* — *Los Angeles, USA*
- Led a team of 5 to generate synthetic data using various **Large Language models**, applying advanced techniques to create high-quality datasets for model training.
- Implemented **BERT** model to evaluate accuracy of datasets, ensuring precision-driven results for comprehensive model performance assessment.

**HDFC Bank** — Aug 2022 – Nov 2023
*Data Analyst* — *Mumbai, India*
- Leveraged **Python** to develop mobile app automation scripts, boosting testing efficiency by 30%, and formulated execution reports using **Power BI** across the bank.
- Directed automation with **Selenium**, **Java**, and **DevOps**, delivering 40% faster feedback. Spearheaded migration of 1,500+ Jira projects to Data Center with under 1% downtime, streamlining processes via **SQL**.

## PROJECTS

**Sentiment Analysis** | **Keras, TensorFlow, Matplotlib, MLP, CNN, LSTM**
- Engineered a deep learning-based sentiment analysis model with Keras, incorporating data preprocessing, tokenization, and word embeddings. Trained MLP, CNN, and LSTM models on 1,400 samples.

**NBA Analytics** | **Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, BeautifulSoup**
- Conducted a thorough statistical analysis of NBA player metrics by computing advanced data from web scraping and analyzing a total of 33 metrics.

**BayMax-Healthcare Chatbot** | **Python, TensorFlow, PyTorch, Pandas, Scikit-learn**
- Designed a healthcare chatbot with NLP and ML in Python, starting with a Decision Tree and later refining responses with a Random Forest model, trained on over 4,000 healthcare records.

**Employee Management System** | **Java, MySQL, JDBC, AWT, Swing, Action Listener**
- Built a scalable Java and MySQL system leveraging JDBC for seamless database communication and an interactive interface with AWT and Swing, effectively managing data for over 1,000 users.

## CERTIFICATIONS

- Improving Deep Neural Networks:Hyperparameter Tuning, Regularization and Optimization-**Deeplearning.AI**
- Neural Networks and Deep Learning-**Coursera**.