SHREYA SETHI

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EDUCATION

University of Southern California **Aug 2024 - Present**
Masters, Computer Science
- **GPA:** 3.82/4.0
- **Coursework:** Analysis of Algorithms, Machine Learning for Data Science, Deep Learning, Applied Natural Language Processing, Web Technologies

Thapar Institute of Engineering and Technology **Jul 2019 - May 2023**
Bachelors, Electronics and Communication Engineering
- **GPA:** 9.07/10
- **Coursework:** Operating Systems, Machine Learning, Computer Architecture, Data Structures and Algorithms, Database Management Systems

EXPERIENCE

JP Morgan Chase & Co **Jul 2023 - Jul 2024**
Software Developer *Bangalore, India*
- Contributed as part of the Digital Self Service Enablement team in the Consumer and Community Banking segment.
- Developed full stack solutions to deliver new and enhanced banking features for consumers, leveraging modern programming languages including Python.
- Conducted comprehensive Component and Unit Testing to ensure overall project integrity.
- Delivered reusable web code adaptable for native applications operating under a hybrid model.

JP Morgan Chase & Co **Jan 2023 - Jul 2023**
Software Developer Intern *Bangalore, India*
- Maintained and enhanced existing UI features while creating new functionalities for Chase Website across web and mobile platforms.
- Learned and implemented Continuous Integration and Deployment practices through CI/CD pipelines.

ACADEMIC PROJECTS

Transformer-Based Music Genre Transfer **Jan 2025 - May 2025**
- Designed and compared 5 deep generative models for genre transfer using Mel spectrograms from the GTZAN dataset
- Adapted Meta's MusicGen for prompt-based genre conditioning, achieving the most coherent and musically plausible audio transformations
- Built an interactive real-time genre transfer interface and evaluated outputs across 10 music styles

Uncovering Bias in Clinical Text:Using LLMs for Fairness **Jan 2025 - May 2025**
- Fine-tuned both ClinicalBERT and BioGPT leveraging MIMIC-III EHR data, incorporating multiple demographic attributes
- Evaluated model fairness using various fairness prediction metrics to quantify bias across sensitive groups
- Applied post-processing mitigation strategies reducing bias metrics by up to 100% without loss in model accuracy

Heart Disease Prediction Model using Machine Learning **Jul 2022 - Dec 2022**
- Analyzed cross datasets in order to account more number of observations than usual thereby leading to a much more efficient model
- Built on the application of different ML Algorithms led to achieving a 100% accuracy with SVM model. Applied Ensemble Learning Techniques such as Bagging, Boosting on the model. Depicted results using ROC Curves, Correlation Matrix and other Accuracy Parameters

SKILLS

- **Languages/Libraries & Frameworks**: HTML/CSS, Javascript, ReactJS, Python, PyTorch, TensorFlow, OOPS, DSA, SQL, DBMS, OS, Scikit-learn
- **Interpersonal Skills**: Leadership, Public Relations, Teamwork, Problem solving, Flexibility, Organizational skills
- **Machine Learning & AI**: Artificial Intelligence (AI), Large Language Models

ACHIEVEMENTS

- Received Schools's Highest Recognition - Silver Plate for being a scholar for 8 consecutive years
- Received Merit Scholarship worth Rs. 1,24,900 in 3rd year of college