

EDUCATION

Los Angeles, CA	University of Southern California	Aug 2022–May 2024
<ul style="list-style-type: none">• Master of Science in Computer Science• Coursework: Analysis of Algorithms, Data Science for Machine Learning		
Varanasi, India	Indian Institute of Technology (BHU)	Aug 2017–May 2021
<ul style="list-style-type: none">• Bachelor of Technology in Computer Science with Honors in Artificial Intelligence. GPA: 9.1/10		

EXPERIENCE

Software Engineer	JPMorgan Chase & Co.	Jun 2021–Aug 2022
<ul style="list-style-type: none">• Designed and built a web application that filters expiring futures contracts and allows the Portfolio manager to roll them.• Developed a latency and app health monitor that does automated checks and alerts the team as per incident severity. This app saves approximately 100 hours of manual work in a year.• Implemented an entire scalable Blazemeter test suite for a new Orders management workflow that discovered multiple critical latency and payload size discrepancies.• Upgraded tech (Spring Boot, JUnit5, Mockito) in 7 legacy microservices without a single production incident.• Identified six major production issues on rotational production support, did root cause and impact analysis based on Datadog traces, Splunk logs.• Worked on technologies Java, Spring Boot, Python, React, JMeter, Apache Groovy, Blazemeter, Datadog, Splunk		
Software Engineer Intern	JPMorgan Chase & Co.	Jun 2020–Jul 2020
<ul style="list-style-type: none">• Spearheaded a team of 5 in building an Indian Sign language translator app under Tech for Social Good initiative.• Captured facial and palm gestures through webcam and processed them using MediaPipe to interpret the signing by leveraging pattern recognition models with an LSTM+AutoEncoder architecture.• Architected the complete pipeline using Django, MediaPipe, JavaScript, Bootstrap		
Software Engineer Intern	4iq	May 2018–Jul 2018
<ul style="list-style-type: none">• Designed and coded the front-end and back-end for loans-management system and on-boarded more than 200 clients from existing Funds management software.• Utilized technologies Django, Bootstrap, SQLite, HTML/CSS		

PROJECTS

- **Hash-based hybrid recommender system** *Python, TensorFlow, SLURM (Supercomputer)* [Code]
Proposed and implemented an end-to-end deep learning-based Hybrid recommender system that utilizes reviews to generate hash codes for prediction and ranking tasks. Outperforms baseline model by 5% in MSE accuracy.
- **Cartoon generation using Generative Adversarial Network** *Python, PyTorch, OpenCV, Flask* [Code]
Created a deep learning GAN model to generate cartoons from real-life portraits. Leveraged a Genetic algorithm-based training strategy for deciding the hyperparameters.
- **COVID-19 Cases Tracker** *React, JavaScript, RESTful APIs* [Demo]
Developed a Coronavirus tracker using crowdsourced RESTful APIs to visualize COVID cases that show country-wise statistics.
- **Semantic search engine** *Python, Django, Gensim, NLTK, Scikit* [Code]
Built a document search engine that retrieves relevant text documents leveraging topic models extracted from medical text corpus from Latent Semantic Indexing.

SKILLS

- Java, C, C++, Python, JavaScript, Spring Boot, Django, React, PyTorch, MySQL, Git, HTML, CSS

ACHIEVEMENTS

- Received the KVPY Fellowship award 2016 from the Indian Institute of Science, Bangalore.
- Secured All India Rank 793 in IIT (JEE) Advanced 2017 out of 1.3 million applicants.
- Secured Rank 154 in Andhra Pradesh EAMCET 2017 (Engineering) out of 200K applicants.
- Hackathons: JPMorgan Code For Good 2021, Microsoft Code.Fun.Do 2019, CodeFest IIT(BHU) 2020