

BHUVAN SHAH

bhuvansh@usc.edu | (213) 331-1360 | bhuvannnn.github.io/tech-portfolio/ | linkedin.com/in/bhuvanshah/ | github.com/Bhuvannnn

EDUCATION

University of Southern California	Los Angeles, California
Master's of Science in Computer Science	May 2025
<ul style="list-style-type: none"><i>Coursework:</i> Analysis of Algorithms, Database Systems, Applied Natural Language Processing, Advanced Mobile Devices	
Indus University	Ahmedabad, India
Bachelor's of Computer Science and Engineering GPA 4.0	August 2019-May 2023
<ul style="list-style-type: none"><i>Coursework:</i> Data Science, Machine Learning, Differential Equation and Linear Algebra, Computer Systems Architecture, Operating Systems, Computer Network, Cloud Computing, Web Technology	

TECHNICAL SKILLS

Languages: Python, SQL, Deep Learning, Machine Learning, HuggingFace, Transformers, LSTM, JavaScript, Java, C#, React, Node.js
Technology: Pytorch, SciKit, Git, Power BI, Tableau, TensorFlow, Hadoop, Spark, Flask, Django, GCP, AWS S3, NoSQL, MongoDB, Data Visualization, Statistical Learning, GCP

EXPERIENCE

University of Southern California	Los Angeles, California
<i>Graduate Teaching Assistant</i>	May 2024 - Present
<ul style="list-style-type: none">Facilitated 180+ students through office hours, guiding on C#, Python, and R coding, and delivered key lectures on course concepts, graded assignments with detailed feedback, developed 6+ in-class coding activities, and supported the integration of analytics into games through Firebase and Unity Analytics	
Prompt Softech	Ahmedabad, Gujarat
<i>Data Scientist Intern</i>	December 2022-May 2023
<ul style="list-style-type: none">Impacted 12 traders by achieving 93% accuracy with a custom LSTM neural network with bifurcated architecture using stock prices and Twitter sentiment polarityReached 95% average accuracy by enhancing performance through building and fine-tuning technical indicatorsGenerated over \$1200 in trading profits by boosting accuracy to 95.6% through comprehensive backtesting and refining indicators with MQL4/MQL5	
Tornado Computer	Ahmedabad, Gujarat
<i>Data Analyst Intern</i>	June 2021-July 2021
<ul style="list-style-type: none">Attained 92% accuracy in performance optimization by leveraging algorithms and IoT to optimize hardware performance and predict system failuresReduced downtime and repair costs by 87% through implementing a neural network for predictive maintenance using sensor data from hardware sensors and logs	
Vueinternational	Ahmedabad, India
<i>Software Developer Intern</i>	June 2020-October 2020
<ul style="list-style-type: none">Delivered a 15% increase in user engagement by designing and implementing interactive components with React, Tailwind CSS, Node.js and Express.js with MongoDB to facilitate efficient data retrievalEnhanced transaction security by 20% through integrating secure credit card transactions with Stripe API	

PROJECTS

PII Detection and Masking PyTorch, DeBertaV3, Transformers, Natural Language Processing, LLM	Los Angeles, CA
<ul style="list-style-type: none">Led a team of 5 people and achieved a 99.56% F-Beta Score by developing a DeBERTaV3-based NER system with advanced architecture, integrating a dense layer and softmax activation for improved accuracy in PII detectionExpanded detection capabilities from 10-15 to 94 PII tags, surpassing traditional rule-based systems by optimizing training with a tailored learning rate schedule and advanced token-level prediction	
Me, Myself and Time Unity, C#, Python, Tableau, Git, Data Analysis	Los Angeles, CA
<ul style="list-style-type: none">Enhanced player experience by implementing a unique time-traveling mechanic, resulting in a 25% increase in engagement, as measured by player retention rates, with the game played nearly 10,000 times on the live build.Improved game analytics by integrating detailed heatmaps and stacked bar diagrams, achieving a 30% boost in level completion rates through data-driven design adjustments and reducing player restart rate by 20%	
Forecast Finesse: Analysing stock performance LSTM, BeautifulSoup, Streamlit, Tweepy	Ahmedabad, India
<ul style="list-style-type: none">Performed sentiment analysis system on live Twitter feed and Google News using a customized NLTK combined with BeautifulSoup for webscraping resulting in 92% accuracy excluding nuances such as sarcasmDeveloped a dashboard with live streaming of data from Yahoo Finance, tweets and GoogleNews, polarity sentiment scores resulting in 24% increase in profitability of users	
Analysing Student Marks Machine Learning, Google Colab	Ahmedabad, India
<ul style="list-style-type: none">Engineered a robust analytical model with dimensionality reduction techniques to identify 10 key performance indicators; this targeted approach resulted in an 80% improvement in student academic performance across diverse learning environments	