

Puja Sridhar

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Education

Masters of Science in Computer Science Rutgers University, The State University of New Jersey, USA	January 2024 - December 2025 3.8/4.0
Bachelor of Engineering in Artificial Intelligence and Machine Learning BMS Institute of Technology and Management, India	August 2019 - May 2023 8.64/10.0

Skills

Technical Skills	Python, SQL, Artificial Intelligence, Machine Learning, Data Science, Deep Learning, NLP, Cloud Computing, AWS services (Lambda, EC2, S3, DynamoDB), Computer Vision
Tools and Frameworks	TensorFlow, Keras, Flask, Pygame, Tableau, SPSS, Matlab, Android Studio, Mujoco Sim

Experience

Graduate Teaching Assistant for Object Oriented Programming Rutgers University - School of Communication and Information	September 2024 - Present New Brunswick, NJ
• Grade 100+ weekly assignments with detailed feedback within 48-hours, improving student coding by 20%	
• Host weekly office hours to address student queries on OOP concepts and design patterns	
Computer Science Grader for Intro to AI (CS440) Rutgers University - School of Arts and Sciences	September 2024 - Present New Brunswick, NJ
• Evaluate 50+ assignments on AI topics including A* search, minimax, neural networks, and reinforcement learning	
• Create detailed solution guides for complex AI problems to enhance student learning	
AI Developer Intern Resolute (HumanFractal.ai)	February 2023 - May 2023 Bangalore, India
• Engineered the Resolute co-pilot, Filomena, by crafting precise prompts using prompt engineering principles.	
• Explored OpenAI models and AWS products while enhancing user interaction by 40%.	
Data Science Intern Exposys Data Labs	September 2022 - October 2022 Bangalore, India
• Developed ML pipeline for startup profit prediction achieving 96.04% accuracy using Random forest.	
• Created interactive Tableau dashboards for visualizing prediction results and model performance	

Projects

Emotion Detection Using Facial Expressions	github.com/repo
• Designed a deep learning model using MobileNet architecture to detect emotions from images with a focus on transfer learning for efficient training.	
• Achieved high accuracy of 96%, enhancing the ability to understand and respond to human emotions, contributing to advancements in AI-driven customer service and mental health monitoring.	
Sentiment Analysis of Movie Reviews	github.com/repo
• Conducted sentiment analysis on 1,000+ movie reviews to discern overall viewer reactions; utilized natural language processing techniques which improved review classification accuracy by 25%.	
• Employed Naive Bayes' Theorem to develop a predictive model achieving a 95% accuracy rate, enhancing data analysis capabilities and revising decision-making processes.	
Credit Card Fraud Detection	github.com/repo
• Developed and integrated machine learning models that detected and prevented 95% of fraudulent transactions, ensuring customers were not improperly charged.	
• Executed a comparative analysis of the Isolation Forest, Local Outlier Factor, and SVM algorithms; findings indicated the Isolation Forest was the most effective, improving anomaly detection times by 25%.	

Leadership

Class Representative: Disseminated updates/announcements from administrators to over 60 classmates.
Event Head: Executed event strategies aligned with organizational goals, resulting in a 20% increase in attendance.
Finance Head: Accomplished cost-saving measures resulted in a 15% reduction in operational expenses.

Certifications

Oracle Cloud Infrastructure Foundations Associate , Oracle University	August 2023
Demystifying Machine Learning Concepts , Impavid Technologies	May 2021
AI for Everyone , DeepLearning.AI	September 2020
Python Data Structures , University of Michigan	September 2020