PRIYAM THAKKAR

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EDUCATION

RICE UNIVERSITY **HOUSTON, TX, USA**
Master of Computer Science (MCS) Aug 2023 - Dec 2024

- Served as a Teaching Assistant for "*Statistics for Data Science*" course in Fall 2024 semester
- **Relevant Coursework:** Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Software Engineering, Project Management and Leadership

MANIPAL UNIVERSITY **JAIPUR, RJ, INDIA**
Bachelor of Technology (B.Tech) , Computer Engineering Jul 2019 - Jun 2023

- **Awards:** Dean's List, Student Excellence Award for research contributions, scholarship **(20%)** awarded to the **top performer**
- Completed a Senior Certificate Program in Computer Science at University of Florida
- **Relevant Coursework:** Object-Oriented Programming, Relational Database Management System (SQL), Operating Systems & Shell Programming, Big Data Analytics, Data Mining, Data Structures and Algorithms, Engineering Mathematics

TECHNICAL SKILLS

Programming Languages: Python, R, Java, C/C++
Machine Learning & AI: Pytorch, TensorFlow, scikit-learn, Keras, Hugging Face, OpenCV, LangChain, Fine-tuning Large Language Models (LLMs), Model Deployment
Data Engineering & Analytics: Databricks, Apache Spark, Airflow, Hadoop, MLflow, DVC, ETL Pipelines, Tableau, Power BI
Databases & Storage: MySQL, PostgreSQL, MongoDB, AWS S3, GCP Storage
Cloud Platforms & DevOps: AWS EC2, Azure, GCP, Docker, Kubernetes, CI/CD Pipelines
Web Development & APIs: REST APIs, React.js, Node.js, Flask, HTML, CSS, JavaScript, Bootstrap, Zustand

PROFESSIONAL EXPERIENCE

Affekta **HOUSTON, TX, USA**
Machine Learning Intern (React, Node.js, Express, Azure, CI/CD, PostgreSQL, OpenAI API) May 2024 - Aug 2024

- Designed RESTful APIs to integrate gamified features, including skill trees and rewards, **engaging 5,000+ users**
- Built a GPT-driven quiz generator pipeline, **boosting user interaction** and engagement by making quizzes more interesting
- Deployed a web application with Azure-based CI/CD pipelines, enhancing operational reliability
- Enhanced React server-side rendering, achieving a **30%** reduction in page load times

Rice University **HOUSTON, TX, USA**
Research Assistant (Python, TensorFlow, Pandas, NumPy, Scikit-learn, BeautifulSoup, Time-Series Analysis) Sep 2023 - Dec 2023

- Created a causal forest analysis framework for clinical time-series, increasing predictive **accuracy by 20%**
- Improved model training **efficiency by 25%** through TensorBoard and Weights & Biases integration
- Conducted feature extraction and preprocessing on **10,000+ clinical data points**, ensuring high-quality inputs

National University of Singapore (NUS) **SINGAPORE, SG**
Data Science Intern (Python, TensorFlow, Flask, HTML, CSS, JavaScript, Microsoft Azure) Jun 2022 - Jul 2022

- Spearheaded a deep learning project for Gastrointestinal Polyps Detection using CNNs, achieving **10% higher accuracy**
- Delivered a Flask-based interactive web tool, integrating TensorFlow models via REST APIs for real-time insights
- Implemented scalable deployments on Azure, optimizing resource utilization and performance

PROJECTS

AI-Powered E-commerce Platform **HOUSTON, TX, USA**
House of Happiness Website (HTML, CSS, JavaScript, Flask, MySQL, Google API, Hugging Face, Render) Sep 2024 - Dec 2024

- Integrated Stable Diffusion API for real-time, AI-driven cake designs, reducing customer explanation **time by 40%**
- Designed REST APIs for secure payment processing and product catalog management using Razorpay
- Automated analytics for inventory and sales, improving operational workflows by 20%

Fashion Recommendation & Virtual Try-On System **HOUSTON, TX, USA**
Stylistic AI (Python, TensorFlow, Matplotlib, EfficientNet-B7, CLIP, K-NN, Flask, RapidAPI) Jan 2024 - May 2024

- Built a multimodal recommendation engine, achieving **94% recall** at top-5 recommendations using CLIP embeddings
- Developed a virtual try-on feature for personalized suggestions, **boosting engagement by 30%**
- Implemented K-Nearest Neighbors for fashion insights, ensuring tailored user experiences

PUBLICATIONS

- **CrowdDCNN: Deep convolutional neural network for real-time crowd counting on IoT edge.** Published in *Engineering Applications of Artificial Intelligence*
- **KUB-UNet: Segmentation of Organs of Urinary System from a KUB X-ray Image.** Published in *Computer Methods and Programs in Biomedicine*