PRIYAM THAKKAR

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EDUCATION

RICE UNIVERSITY **HOUSTON, TX, USA**
Master of Computer Science (MCS) , GPA: 3.50/4.0 Aug 2023 - Dec 2024
- Served as a Teaching Assistant for "*Statistics for Data Science*" course in Fall 2024 semester

MANIPAL UNIVERSITY JAIPUR **JAIPUR, RJ, INDIA**
Bachelor of Technology (B.Tech) , Computer and Communication Engineering , GPA: 3.60/4.0 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, earning a GPA of 3.92

Relevant Coursework: Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Software Engineering, Project Management and Leadership, Object-Oriented Programming, Relational Database Management System, Operating Systems, Big Data Analytics, Data Mining, Data Structures and Algorithms, Engineering Mathematics

TECHNICAL SKILLS

Programming Languages: Python, R, Java, C/C++
Big Data & Analytics: Databricks, Tableau, Power BI, MS Excel, Apache Spark, Airflow, MLflow, DVC, ETL
Libraries & Frameworks: NumPy, Pandas, PyTorch, Tensorflow, OpenCV, Matplotlib, Scikit-learn, BeautifulSoup, LangChain, PySpark, HuggingFace
Databases & Tools: MySQL, PostgreSQL, MongoDB, Git, Microsoft Azure, Docker, Zustand, Linux/Unix, Kubernetes, Render
Web Development: HTML, CSS, JavaScript, React.js, Node.js, Flask, Bootstrap, PHP, TypeScript

PROFESSIONAL EXPERIENCE

Affekta **HOUSTON, TX, USA**
Machine Learning Intern (React, Node.js, Express, Azure, CI/CD, PostgreSQL, OpenAI API) May 2024 - Aug 2024
- Gamified the platform by integrating skill trees, quizzes, rewards, and **interactive features**, engaging **5000+ active users**
- Engineered a **Custom GPT model** to generate quizzes and assignments, boosting **user engagement by 25%**
- Developed and deployed a **scalable web application** with CI/CD pipelines for seamless updates and efficient workflows

Rice University **HOUSTON, TX, USA**
Research Assistant (Python, TensorFlow, Pandas, NumPy, Scikit-learn, BeautifulSoup, Time-Series Analysis) Sep 2023 - Dec 2023
- Scraped **clinical datasets** and implemented **causal forest** time-series analysis, **processing 10,000+ data points** to improve modeling **accuracy by 20%**
- Improved neural network training **efficiency by 25%** using TensorBoard and Weights & Biases, ensuring **bias mitigation**

National University of Singapore (NUS) **SINGAPORE, SG**
Data Science Intern (Python, TensorFlow, Flask, HTML, CSS, JavaScript, Microsoft Azure) Jun 2022 - Jul 2022
- Led a deep learning project with a team of 6 for Gastrointestinal Polyps Detection and Segmentation, **achieving a 10% accuracy** improvement over **state-of-the-art** models
- Engineered and deployed a demonstration website in **Microsoft Azure**, ensuring efficient and reliable deployment

PROJECTS

AI-Powered E-commerce Platform *Link to project* **HOUSTON, TX, USA**
House of Happiness Website (HTML, CSS, JavaScript, Flask, MySQL, Google API, Hugging Face, Render) Sep 2024 - Jan 2025
- Integrated Hugging Face's **Stable Diffusion** API to build an **AI-powered cake designer**, enabling real-time, customized design generation with **95% user satisfaction**
- Developed and launched a **full-stack e-commerce platform** with **Razorpay API** integration, handling **100+** daily transactions
- Designed an admin dashboard to manage **200+ products**, enabling efficient inventory updates and **real-time insights**

Fashion Recommendation and Virtual Try-On System *Link to project* **HOUSTON, TX, USA**
Stylistic AI (Python, TensorFlow, Matplotlib, EfficientNet-B7, CLIP, K-NN, Flask, RapidAPI) Jan 2024 - May 2024
- Achieved **94% recall at top-5 recommendations** across **5 categories** by developing a multimodal recommendation system for image and text alignment
- Boosted user engagement by **30%** with a **virtual try-on feature** enabling real-time visualization of top 5 predicted images on users

PUBLICATIONS

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