PRIYA SINGH

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EDUCATION

University Of Texas at Dallas **Aug 2022 – May 2024**
Master of Science in Computer Science (Intelligent Systems & Data Science Track) *3.879/4.00 GPA*

University Of Delhi **Aug 2018 – May 2021**
Bachelor of Science in Mathematics (Honors Degree) with Minor in CS *9.65/10.00 GPA*

TECHNICAL SKILLS

Languages: Python, C#, C/C++, HTML/CSS, JavaScript, Node.js, PHP, R
Database: MySQL, MS SQL Server, SQL, MongoDB
Libraries/ Frameworks: .NET, Flask, Express.js, React.js, NumPy, pandas, Matplotlib, OpenCV, pySpark, scikit-learn, TensorFlow
Technologies/Tools: VS Code, RStudio, Git/GitHub, REST API, Postman, Mathematica, Excel, Tableau, Figma, Wordpress, Hadoop

EXPERIENCE

Software Developer | **The University Of Texas at Dallas, Richardson, TX** **May 2023 – May 2024**
- Spearheaded the creation of an **automation tool**, reducing manual work by **40%** across **20+** departments saving **100** hours monthly
- Developed a centralized application with **C#**, **.NET framework**, and **SQL** using agile development methodologies. Implemented optimizations for data export and user-friendly features, leading to **80%** increase in data manipulation efficiency.
- Streamlined processes for **100+** faculty by a student advising ticketing system, featuring user-friendly UI designs & functionalities for seamless online request submissions and advising interactions, using **HTML, CSS, & JavaScript**

Product Developer | **Tutero, Ed-tech Startup, Victoria, Australia** **Oct 2021 – Aug 2022**
- Led the overhaul of content operations and product strategy, resulting in a **20%** efficiency boost through streamlined processes.
- Pioneered the development of advanced skill graphs and plagiarism-free resources for K-12 subjects, significantly enhancing the quality of educational content and driving a **30%** increase in user engagement.
- Established a culture of innovation and informed decision making through thorough user testing, resulting in a 20% increase in product reliability and fostering a collaborative team environment.

Data Science Research Intern | **SRCASW, University Of Delhi, New Delhi, India** **Feb 2020 – Jul 2020**
- Led a comprehensive research on academic pressure among students aged **15-22**, analyzing data from **250+** students & their parents using **Python** and advanced **statistical methods** like descriptive & inferential analysis for pattern recognition.
- Applied statistical techniques, such as $Z-$tests, χ^2 tests etc., to uncover significant insights, such as **70%** of students feeling supported by parents and **85%** experiencing stress due to excessive homework.
- Presented the research at the prestigious National Conference **AMTSSC**, showcasing groundbreaking insights derived from this study.

PROJECTS

TokenVerse NFT Trading Platform | *Python, Flask, MySQL, HTML, CSS, JavaScript, AWS*
- Developed a user-friendly NFT trading app with features including buying, selling, & negotiation of NFTs. Engineered owner-driven sales mechanisms and automated ownership transfers, resulting in a seamless user interface and enhanced navigation.

EveryDay Grocery Store Web App | *HTML, CSS, JavaScript, PHP, MySQLi, JQuery, AJAX, JSON, XML*
- Designed an online grocery store featuring category-based shopping & user-friendly navigation through rigorous unit testing & debugging along with an intuitive admin dashboard to efficiently add, modify, and monitor products.

Expense Tracker App | *React.js, Node.js, Express.js, MongoDB*
- Built an expense tracker to streamline budgeting, track spending habits, and gain insights for better financial management.

Nebula-X | *Next.js, Nebula APIs, @mtucourses/rate-my-professors npm package*
- Bulit a course search app for UTD students during HackUTD'22, integrating real-time professor ratings from RateMyProfessor website.

Early Prediction of Sepsis from Clinical Data | *Python, scikit-learn, NumPy, pandas, seaborn, Matplotlib*
- Constructed ML models- Random Forest, Naive Bayes, LR, Decision Trees, XGBoost, Neural Network, attaining F1 score 0.85. Addressed correlation, missing data, & class imbalance.

Comparative study of Different Models for skin disease detection | *Python, Keras, TensorFlow, Matplotlib, scikit-learn, OpenCV*
- Implemented CNN, DenseNet, ResNet, MobileNet for disease detection and achieved 96.84% train & 80.11% test accuracy.

CERTIFICATIONS

- Google Data Analytics Certification by Google
- Generative AI Fundamentals by DataBricks
- Data Analysis with R programming by Coursera
- Developing Applications in Python on AWS by Coursera

PUBLICATION/ACHIEVEMENT/LEADERSHIP

- **WeHack'23 Winner:** Created **Location-based Predictive ML Model** for CBRE in **24 hours**
- Recipient of **Meritorious Student Prize** by Government of New Delhi, India, 2021
- Authored a research paper 'Academic Pressure & it's impact on social relationships' for a book Feb 2020 – July 2020
- Worked as **Events Officer** in Data Science Club, UT Dallas July 2023 – May 2024
- Served as **Treasurer (Former Secretary)** in Ramanarya Mathematical Society, DU Aug 2019 – May 2021