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) *3.88/4.00 GPA*
Coursework: Database Design, Advanced Algorithms, Machine Learning, Web Programming, OOPs, Big Data, Computer Vision

University of Delhi **Aug 2018 – May 2021**
Bachelor of Science in Mathematics (Honors) 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
Machine Learning/AI: TensorFlow, Keras, scikit-learn, OpenCV, NumPy, pandas, Matplotlib, seaborn, BeautifulSoup, Selenium
Libraries/ Frameworks: .NET, Flask, Express.js, React.js, Bootstrap
Technologies/Tools: VS Code, RStudio, Git/GitHub, REST API, Postman, AWS, Excel, Tableau, Figma, Wordpress, Hadoop

EXPERIENCE

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

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 development of advanced skill graphs & plagiarism-free content for K-12, enhancing quality and driving **30%** increase in user engagement.
- Established a collaborative team environment & informed decision making through user testing increasing product reliability by 20%.

Data Science Research Intern | SRCASW, University Of Delhi, New Delhi, India **Feb 2020 – Jul 2020**
- Led research on **250+** people using **Python** and **statistical methods** like descriptive & inferential analysis for pattern recognition.
- Presented research at the prestigious National Conference **AMTSSC**, showcasing groundbreaking insights derived from the 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 with rigorous unit testing & debugging along with an intuitive admin dashboard to efficiently add, modify, and monitor products.

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

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.

Early Prediction of Sepsis from Clinical Data | *Python, scikit-learn, NumPy, pandas, seaborn, Matplotlib*
- Constructed Machine Learning models- Naive Bayes, LR, Decision Trees, XGBoost, Neural Network, attaining F1 score 0.85.

Web Scraping for Spanish LLM | *Big Data, Python, Selenium, BeautifulSoup, Pandas, NumPy*
- Scraped a 1.6 GB dataset from 173 Spanish websites using Selenium and BeautifulSoup, focusing on political conflict and violence. Demonstrated skills in large-scale data collection, aggregation, and preprocessing.

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 & its 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