BHARGAV PULIPATI

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EDUCATION

The University of Texas at Dallas, United States — Expected May 2025
Master of Science, Computer Science — **GPA 3.959/4.0**

Vellore Institute of technology, India — May 2023
Bachelor of Technology, Electronics and Communication Engineering (Computer Systems Track) — **GPA 9.07/10**

TECHNICAL SKILLS

Programming Languages: Python, Java, R, C++, SQL, HTML, CSS, JavaScript
Platforms: Jupyter Notebook, R Studio, Visual Studio Code, MySQL, Microsoft Office 365 Suite, Ms Excel, Git, Linux, Azure
Frameworks: TensorFlow, Keras, PyTorch OpenCV, NumPy, Pandas, SciPy, Matplotlib, Flask, Tableau, MATLAB, Snowflake, Spark
Technical Competencies: Predictive Modeling, Data Visualization, Database Design, Data Analysis, Web Scraping, Computer Vision, Big Data, Version Control, Prompt Engineering, Lang Chain, Relational Database

WORK EXPERIENCE

Web Application Intern, **Celestial V Solutions**, Bangalore, India — **May 2022 – July2022**

- Designed and implemented responsive user interfaces using HTML, CSS, React, and JavaScript for a warehouse storage company, resulting in a 20% increase in user engagement.
- Collaborated dynamically with a developer team, ensuring a 15% faster implementation of client specifications and receiving positive feedback from clients.
- Utilized React and JavaScript to optimize website functionalities, contributing to the streamlining of warehouse operations and showcasing technical prowess in delivering impactful digital solutions.

***Machine Learning Intern*, Strydo Technologies Pvt. Ltd.**, Tirupati, India — **June 2021 – August 2021**

- Collaborated with a dynamic team in developing a robust recommendation system for the e-commerce platform, utilizing advanced machine learning techniques such as Gradient Boosted Trees, Neural Networks, and CHAID decision trees.
- Played a key role in implementing innovative models and analytical strategies, contributing to a significant 12% increase in sales within a single quarter.
- Worked closely with the team to apply machine learning expertise, effectively enhancing the overall performance and impact of the e-commerce platform, showcasing a collaborative approach to optimizing business outcomes.

PUBLICATIONS AND PROJECTS

Image Caption Generator, UT Dallas — **August 2023 – December2023**

- Collaborated in a group project to develop an end-to-end machine learning-based web application, achieving an average image Captioning accuracy of 95% using deep learning techniques such as Neural Networks, LSTM, and GRU.
- Utilized Flask framework to create an intuitive user interface for uploading images which received top-five captions generated by the deep learning model.

Twitter Network Sentimental Analysis on Vaccination, VIT University — **January 2023 – May 2023**

- Conducted a comprehensive sentiment analysis on Twitter data related to vaccination, utilizing advanced techniques including LSTM and Neural Networks was published in the International Journal of Scientific Research in Computer Science.
- Delved into diverse opinions on various vaccinations available in India, achieving an insightful sentiment accuracy of 87%.

Motion-Based Computer Mouse Control System, VIT University — **August 2022 – November 2022**

- Engineered a hands-free mouse control system using computer vision and machine learning. Implemented OpenCV for real-time hand gesture recognition and tracking through a webcam.
- Utilized TensorFlow to train machine learning models, translating recognized gestures into precise mouse movements and clicks. Research was Published to the International Journal of Innovative Technology and Exploring Engineering.

Customer Churn Prediction Project, VIT University — **December 2021 – May 2022**

- Developed a predictive model for customer churn, achieving an impressive accuracy rate of 92% through the utilization of Gradient Boosted Trees and Neural Networks.
- Created an interactive Tableau dashboard to visually represent findings, effectively highlighting churn rates across diverse customer segments for actionable insights.

ACHIEVEMENTS AND LEADERSHIP EXPERIENCE

Recipient of Dean's Academic excellence scholarship, UT Dallas Computer Science Dept.
CS Outreach High-School Instructor, UT Dallas Computer Science Dept. — **August 2023 – Present**
Data Science and AI Club Coordinator, VIT University — **March 2022- May2023**
Lead for Covid-19 Response Team, Team Covisafe, Tirupati — **January 2021-February2022**
Gold Medalist, Olympiad of Mathematics by Silver Zone Foundation — **March 2018**