Pruthvi Shyam Billa

(240)-424-3247 ● pruthvishyamb@gmail.com ● https://www.linkedin.com/in/pruthvi-billa/ ● https://billaprut.github.io/

SUMMARY

A highly motivated & passionate professional with 6+ years of experience in a multinational software company. Proven track record of successfully working in the IT Industry & implementing various defect-free projects, services, and components, with hands-on experience in predictive models, Python, R, C++, and Cloud. Fervently waiting to leverage learned skills and contribute to the industry where it is in high demand.

EDUCATION

University of Maryland   **College Park, MD, USA**
Master of Science, Information Systems, GPA: 3.9   **December 2023**
- Graduate Assistant: UM Extension
- SMSA Orientation Committee Member

Jawaharlal Nehru Technological University   **Hyderabad, India**
Bachelor of Technology, *Electronics and Communication Engineering*, *GPA: 3.53*   **May 2016**

WORK EXPERIENCE

Pixxel Space Technologies   **El Segundo, California**
Analytics RnD Intern   **June 2023 – August 2023**
- Demonstrated exceptional leadership by implementing in-house code development and project management practices for satellite imagery, achieving 30% increase in team productivity, and 100% client satisfaction.
- Developed code and implemented Vertex Component Analysis algorithm using Python to remove noise artifacts and enhance image features, improving overall image classification accuracy by 6%.

Tata Consultancy Services   **Mumbai, India**
Analyst   **July 2021 – July 2022**
- Remodeled processing of high-risk prepaid cards with Python and SQL, ensuring a 10% decrease in bad debts.
- Optimized package deployment using VBS scripts, resulted in 25% faster execution time saving $50K annually.

Tata Consultancy Services   **Mumbai, India**
Software Engineer   **June 2016 – June 2021**
- Developed three Python modules to efficiently store the gift card fulfillment timing of prepay reservations in database for Amazon Prime users, leading to a 12% increase in cross-platform business transactions.
- Led group of 6, collaborated with e-commerce, mobile teams on MS Teams & Jira, reducing 20% delivery time.

PROJECT EXPERIENCE

Airbnb (*Python, R, Flask, HTML, CSS, JavaScript, Tableau, MongoDB*)
- Optimized ML models to predict high booking rates of Airbnb properties, improving AUC from 77% to 90%.
- Developed a rate predictor web application for business owners and users, aiding them in making informed decisions. This tool can guide hosts in making targeted improvements to their listings, while guests can use it to check the popularity of a listing, often an indicator of quality and value.
- Created Tableau dashboards for Airbnb pricing, identifying insights: US average price consistently greater than $100 with majority 58.61% customers renting entire room property type.

Hugging Face (*Python, AWS, HDFS, Pig, PySpark, Colab*)
- Fine-tuned a BERT model to predict the topic of user posts on Stack Exchange sites with a test accuracy of 96.9%.
- Utilized a transformers model to generate summaries of 10 Daily Mail reviews with 0.81 average BERT 'F1' score.
- Developed virtual assistants for Sentiment Analysis, Text Summarization, and Text Generation applications.

SKILLS

Languages and Databases: Python, C & C++, R, Java, JavaScript, Flask, SQL, MS SQL Server, MongoDB.
Data Competencies: Machine Learning, Deep Learning, Data Science & Analytics, Predictive Modeling, Statistical Modeling, Data Mining, Data Visualizations, NLP, LLM, Generative AI.
Big Data Framework: HDFS, MapReduce, Pig, Hive, Sqoop, Spark.
Tools: AWS, MS Office Apps, Google Analytics, Tableau, GitHub, Jira, Docker, Jenkins, Postman, Agile Methodology.
Interpersonal: Communication, Presentations, Teamwork, Leadership, Problem-Solving, Critical Thinking.

CERTIFICATIONS

AWS Certified Cloud Practitioner, Recipient of TCS Service and Commitment Award, Diploma in Carnatic Music.

VOLUNTEER

- Group representative and Safety Champ for TCS ILP training batch.
- Worked as a volunteer for the Women Empowerment division of Street Cause Organization, Hyderabad.