

# Pruthvi Shyam Billa

(240)-424-3247 • pruthvishyamb@gmail.com

• [LinkedIn](#) • [Personal-Website](#) • [Work-Website](#) • [GitHub](#) • [Tableau](#)

---

## SUMMARY

A highly motivated & passionate professional with 7+ years of experience. Proven track record of successfully working in the IT industry & implementing various defect-free projects, services, and components, with hands-on experience in data science & analytics, predictive models, python programming, and cloud technologies. Fervently waiting to leverage learned skills and contribute to the industry where it is in high demand.

---

## EDUCATION

### University of Maryland

Master of Science, Information Systems, GPA: 3.9

- Graduate Assistant: UM Extension
- SMSA Orientation Committee Member

College Park, MD, USA

August 2022 – December 2023

### Jawaharlal Nehru Technological University

Bachelor of Technology, Electronics and Communication Engineering, GPA: 3.53

Hyderabad, India

June 2012 – May 2016

---

## WORK EXPERIENCE

### University of Maryland

#### Web Manager

- Perform web development, data analysis of web traffic, manage website content, and streamline operations to improve efficiency.

College Park, MD, USA

January 2024 – Present

### Pixxel Spacex Technologies

#### Analytics RnD Intern

- 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.
- Analyzed noise patterns across satellite images and implemented VCA algorithm using Python, improving overall image classification accuracy by 6%.

El Segundo, California

June 2023 – August 2023

### Tata Consultancy Services

#### Analyst

- 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.

Mumbai, India

July 2021 – July 2022

### Tata Consultancy Services

#### Software Engineer

- 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.
- Performed unit and system testing to prepare test results and created code review checklist documents.

Mumbai, India

June 2016 – June 2021

---

## 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%.
- 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, HTML, CSS, SQL, MS SQL Server, MongoDB.

**Data Competencies:** Data Science & Analytics, Data Mining, Visualizations, Machine Learning, Deep Learning, LLM.

**Big Data Framework:** Hadoop, MapReduce, Pig, Hive, Sqoop, Spark.

**Tools:** AWS, Azure, Google Analytics, Tableau, GitHub, Jira, Docker, Jenkins, Postman, Agile Methodology.

**Microsoft Office:** Excel, Word, PowerPoint, SharePoint, Power BI, Power Automate, Teams.

**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.