

Poorna Pallavi Tekkali

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PROFESSIONAL SUMMARY

Computer Science Graduate Student with hands-on experience in **full-stack development**, **data analytics**, and **machine learning**, demonstrated through impactful projects focused on **security breach reduction** and **fraud prevention**. Proficient in **Python**, **SQL**, **JavaScript**, and data visualization tools such as **Tableau** and **Power BI**. Adept at designing scalable solutions, extracting actionable insights, and building intelligent systems. Seeking opportunities in **Software Development** or **Data Analytics**, with a strong willingness to **relocate** for the right opportunity

EDUCATION

University of Texas at Arlington, MSc. in Computer Science /

Expected -May 2025

- **GPA:**3.78
- **Relevant Coursework:** Design Analysis and Algorithms, Web Data Management, Software Design Patterns, ML, AI, Data mining, Cloud Computing and Big Data

Sanketika Institute of Technology and Management, B. Tech in Computer Science and Engineering |

June 2017-July 2021

- **GPA:**8.05
- **Relevant Coursework:** Python Programming, Cloud Computing, Operating Systems, Data warehousing and Data mining

WORK EXPERIENCE

Investigation Specialist - Amazon, Hyderabad, TN, India

Oct 2021 –July 2023

- **Performed data-driven investigations** into suspicious merchant activities using pattern recognition techniques, reducing fraudulent transactions by 30% and enhancing customer trust.
- Developed and optimized rule-based detection strategies, leveraging **SQL** queries and data analysis to identify anomalies, cutting **security breaches by 25%**.
- Collaborated with cross-functional teams to streamline fraud detection workflows, integrating automated checks for enhanced operational efficiency.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C
- **Database Management:** SQL, MySQL
- **Web Development:** HTML, CSS, JavaScript, Php, Bootstrap
- **Tools:** Tableau, PowerBI, MS Excel, MS Word
- **Frameworks:** Scikit-learn
- **Big Data Technologies:** Hadoop, Apache Spark
- **Version Control & Collaboration:** Git, GitHub

PROJECTS

Detection of Cyber-attacks in Networking Using Machine Learning Techniques

- **Objective:** Developed and evaluated a website classification system using the **Naive Bayes classifier**, achieving a **92%** accuracy rate in detecting and mitigating potential security threats.
- **Impact:** Analyzed over 100,000 websites, uncovering security risks and reducing potential cyber-attacks by **45%**.
- **Leadership:** Led a team of three to refine algorithm parameters, enhancing classification accuracy to 95% through iterative model adjustments.

SKILLS: Python, Machine Learning, Data Analysis, Data Collection

Machine Learning: Sentiment Analysis on Customer Feedback

- **Objective:** Applied natural language processing (NLP) techniques, including **LSTM** and **GRU**, to analyze Amazon customer feedback and improve insights into customer satisfaction.
- **Impact:** Built a sentiment analysis model achieving **81.5%** accuracy in classifying feedback as positive, negative, or neutral, analyzing 20,000 customer reviews.
- **Outcome:** Delivered a robust framework for actionable insights, helping businesses improve customer satisfaction and loyalty.

SKILLS: Python, Machine Learning, Deep Learning, Natural Language Processing, LSTM, GRU, Pandas, Jupyter Notebook

Academic Project: Smart Healthcare Hub | Role: Pharmacist Module Developer

- **Objective:** Designed and implemented a Pharmacist Module to streamline prescription management and medication tracking.
- **Impact:** Automated database setup using Laravel Factories and Seeders to manage over 50 user and symptom records, reducing manual errors by 30%.
- **Outcome:** Ensured accurate data handling and compliance with healthcare regulations, improving system reliability and user satisfaction

SKILLS: Html, CSS, PHP, React

CERTIFICATIONS

- Google Data Analytics Professional Certificate-Google-Coursera
- Data Science Job Simulation-British Airlines-Forge
- HTML, CSS, and JavaScript for Web Developers-Coursera
- Walmart Advanced Software Engineering-Walmart-Forge