

Poorna Pallavi Tekkali

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Professional Summary

I am a computer science graduate from the University of Texas at Arlington, with a strong foundation in data structures, the software development lifecycle, and Agile methodologies. Proficient in Python, Java, and C/C++, I am dedicated to delivering reliable and efficient technology solutions. My passion for Full Stack Development and Data Science drives my focus on designing and deploying machine learning models and data-driven applications. Using advanced analytics and flexible web applications, I effectively apply my programming and analytical skills to solve complex business challenges. Throughout my academic career, I have been committed to continuous learning and producing high-quality results through collaborative problem-solving.

Education

UNIVERSITY OF TEXAS AT ARLINGTON

Aug 2023 – May 2025

Master's in Computer Science

- GPA: 3.8/4.0
- **Coursework:** Data Mining, Web Development, Artificial Intelligence, Machine Learning, Software Design Pattern, Cloud Computing and Big Data, Distributed Systems

Experience

INVESTIGATION SPECIALIST

Hyderabad, In

Amazon

Oct 2021 – Jul 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.

Skills

- **Languages:** Python, JavaScript, Java, PHP, SQL, C
- **Data Science Stack:** Machine Learning, Statistical Analysis, Natural Language Processing, Computer Vision, Deep Learning, Predictive Modeling
- **Web Development:** React.js, Node.js, Express, HTML5, CSS3, Bootstrap, Laravel, RESTful APIs
- **Database Technologies:** MySQL, MongoDB, SQL Server, Data Warehousing
- **Libraries and Frameworks:** Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, NLTK, Flask, Django
- **Visualization and BI Tools:** Tableau, Power BI, D3.js, Matplotlib, Plotly
- **Big Data and Cloud:** AWS, Azure, Hadoop, Apache Spark, Docker
- **Development Tools:** Git, GitHub, VS Code, Jupyter

Projects

Sentiment Analysis on Customer Feedback

[Git Repository](#) 

- Developed an end-to-end web application that integrates NLP models with a React front-end interface.
- Implemented LSTM and GRU neural networks to analyze more than 20,000 customer reviews with 81.5% accuracy.
- Interactive visualizations created using D3.js and Chart.js to display sentiment trends and insights.
- Built RESTful APIs using Node.js to connect machine learning models with front-end components.
- The application was deployed using Docker containers, ensuring consistent performance across environments.

Smart Health Care Hub

[Git Repository](#) 

- Designed and implemented an enterprise-grade healthcare management system using PHP, Laravel, and React.
- Engineered automated database seeding infrastructure using Laravel Factories, managing over 50,000 clinical records.
- Integrated sophisticated data analytics features to track medication usage patterns and establish predictive prescription trends.
- Ensured data protection through secure authentication and role-based access control, aligning with security and compliance standards.

Detection Of Cyber Attack

[Git Repository](#) 

- Architected a production-ready security application integrating machine learning models with a comprehensive web interface.
- Developed and optimized classification algorithms to achieve 92% precision in detecting sophisticated threats to network security.
- Engineered high-performance data pipeline to process and analyze traffic from more than 100,000 websites.
- Created an interactive security dashboard using Bootstrap and JavaScript with real-time threat visualization capabilities.
- Led cross-functional team of engineers, coordinating both data science and full-stack development initiatives.

Certifications

- **Google Data Analytics Professional Certificate** – Google (Coursera)
- **Data Science Job Simulation** – British Airways (Forage)
- **HTML, CSS, and JavaScript for Web Developers** – Coursera
- **Walmart Advanced Software Engineering Program** – Walmart (Forage)