

POORNIMA THANIKAI VELU

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EDUCATION

The University of Texas at Dallas, Richardson, TX Master of Science Business Analytics – 3.8 / 4	Jan 2023 - Dec 2024
Dayananda Sagar College of Engineering, Bangalore, India Bachelor of Engineering Computer Science and Engineering – 9.2 / 10	Aug 2016 - May 2020

CORE SKILLS

Programming Languages: Python, R, SQL, C++
Databases: SQL, MySQL, PostgreSQL, NoSQL (MongoDB), Big Query, Monday, Qt Creator
Statistical Analysis: Hypothesis testing, ANOVA, Predictive/ Prescriptive Analytics
Analytical Tools: Microsoft Excel, Tableau, Pivot tables, VLOOKUP, Data Solver, SAP, Looker Studio, Figma
ML Algorithms: Regression, Classification, Clustering, Random Forest, KNN, XGBoost, Neural Network
Tools and Libraries: NumPy, Scikit-learn, Pandas, Matplotlib, OpenCV, PyTorch, Tensorflow

WORK EXPERIENCE

Blackstone Launchpad Richardson, TX, USA Data Analyst Intern	Jun 2023 – Present
<ul style="list-style-type: none">Enhanced data accuracy and streamlined reporting by leveraging BI tools, resulting in efficient decision-making.Analyzed large datasets using statistical techniques to provide actionable insights for data-driven decisions.Boosted project efficiency by 20% and enhanced data reliability by developing and optimizing data pipelines.	
Larsen & Toubro Technology Services Bangalore, Karnataka, India Software Engineer	Jan 2021 - Oct 2022
<ul style="list-style-type: none">Developed UI application for intuitive patient data analysis, prioritizing effective pattern interpretation for Quality reporting.Introduced a novel interface component to streamline demographic data handling, boosting efficiency by 32%.Led client interactions, overseeing team activities, and presenting project implementations to align with client objectives.	

PROJECTS

Nerveli, Blackstone Launchpad	Feb 2024 - Present
<ul style="list-style-type: none">Curated data collection by employing techniques like clustering and classification for user-preference alignment in testing.Enhanced user experience with content recommendation training for similar suggestions.	
MEDI Right: Health Care Application using AWS, UTD	Sep 2023 - Nov 2023
<ul style="list-style-type: none">Engineered seamless AWS integration in healthcare with Cognito authentication, RDS scheduling for HIPAA compliance.Amazon Glacier securely stored medical records with integrated payment, ensuring compliance and user experience.	
American Express: Credit Risk Analysis, UTD	Aug 2023 - Oct 2023
<ul style="list-style-type: none">Employed machine learning for efficient data analysis, including encoding and aggregation, to discern patterns effectively.Conducted comparison of XGBoost and Neural Network algorithms for risk management and revenue optimization.	
Princeton Review, Blackstone Launchpad	Jun 2023 - Aug 2023
<ul style="list-style-type: none">Developed an automated pattern recognition system used alongside analytics tools for efficient data management.Analyzed data using Tableau, mining 17K+ datasets to assess efficiency across parameters.	
IBM HR Employee Attrition, UTD	Jan 2023 - Apr 2023
<ul style="list-style-type: none">Performed data analysis and developed an automated system for pattern recognition.The process involved thorough data cleaning, organization, analysis, and storage.	
Rainier Monitor, Larsen & Toubro Technology Services	Jan 2021 - Oct 2022
<ul style="list-style-type: none">Developed UI/UX interface to visualize patient data patterns, simulating heartbeat pulses.Enhanced demographic data handling with the introduction of UI components for faster storage and analysis.	
Consumer Behavior Analysis on Recurring Sequences Using Data Mining, DSCE	Nov 2019 - Apr 2020
<ul style="list-style-type: none">Developed and deployed an online shopping web app, utilizing data mining and KNN Regression for training.	