Sai Meda

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EDUCATION

Purdue University – West Lafayette, IN May 2027
B.S. Computer Science and B.S. Statistics
Concentrations: Artificial Intelligence and Applied Statistics | **Minor:** Finance
Relevant Coursework: Data Engineering in Python, Data Structures and Algorithms, Real Analysis, Linear Algebra, Data Mining And Machine Learning, Analysis of Algorithms, Applied Regression Analysis, Futures and Options, Probability, Fixed Income Sec.

TECHNICAL SKILLS

Languages: Python, Java, R, Javascript, C++, HTML, SQL, CSS
Tools/Frameworks: Word Press, Pandas, Matplot, Git, Tensorflow, Pytorch, Flask, Excel, Numpy, Scipy, MongoDB, PowerShell
Certifications: Microsoft Azure AI Fundamentals, Microsoft Azure Fundamentals, Duke Product Management

EXPERIENCE

Purdue Solutions Consulting – West Lafayette, IN August 2023 – Present
• Selected as one of 15 individuals out of a pool of 250+ applicants to provide third–party solutions to address business problems
DigitalNext
Project Manager January 2024 – May 2024
• Developed an integrated sales strategy, leveraging data analytics and cybersecurity portfolio to drive sales growth by 25 percent
• Conducted comprehensive market analysis in collaboration with team members identifying potential client cyber needs
CES Nationwide
Technology *Consultant* August 2023 – December 2023
• Derived a new SKU and item class system based off current industry practices by parsing through over 4000 items of inventory
• Coordinated with needs of CES staff and vendors on an efficient way to reorganize product IDs for future order processing\

Artificial Intelligence in Music - Elmore School of Electrical and Computer Engineering
*Machine Learning Researcher - **PI's**: Lu Yung-Hsiang and Kristen Yeon Ji-Yun* January 2024 – Present
• Conducted research on machine learning and robotics literature to train a robot with 6 degrees of freedom to play a cello
• Developed a simulation on Gazebo using ROS/Moveit to simulate an agent with realistic kinematics and generate accurate data
• Submitted comprehensive research proposals, including detailed literature reviews, methodology sections, and budget justifications, resulting in approved funding and a future research publication

The Aerospace Corporation – Remote
Data Engineer January 2024 – Present
• Created a Flask application using Plotly and Pandas, boosting visualization efficiency by 40% through parsed telemetry data
• Orchestrated a robust SQL database to streamline user interactions and enhanced file processing by storing repeated datasets
• Leveraged real-time telemetry data with a Kalman filter to account for errors, leading to a 75% reduction in interference in data

Microsoft (Minecraft) - Remote
Data Engineer August 2023 – January 2024
• Adjusted Twitter sentiment analysis tools, resulting in a 50% increase in data processing speed of 10,000+ tweets per day
• Refined data extraction pipelines, automating storage of large datasets while reducing manual data handling time by 300%
• Applied LDA to analyze over 5,000 YouTube comments and applied BERT achieving 89% accuracy for sentiment analysis

Crazy4Crayons – Carmel, IN
Founder August 2022 – May 2023
• Established an organization to establish equitable access to education, resulting in a total of $1590 raised and over 800 supplies
• Spearheaded a large-scale community giving project for Carmel DECA, coordinating an operation with more than 50 participants

PROJECTS

MountainCarRL - *Python, OpenAI Gymnasium, NumPy, Matplot*
• Implemented an efficient reinforcement learning model using Q-learning to solve classic Mountain Car problem
• Integrated Python-based machine learning libraries such as NumPy and Gym, while visualizing agent's training progression

Smart Poker Bot - *Python (Pandas, NumPy, SciPy, PyGame, PyTorch)*
• Engineered a simulation environment for a Poker (Texas Hold-em) bot to learn and create profitable strategies
• Designed a Poker bot which executes based on quantitative strategies: statistical analysis, backtesting, and risk management

Sai Venture's - *Python, React, Django, SQL, Pandas, Plotly*
• Built a data scraper using python to collect real time market data on stock market and collect patterns for technical analysis
• Gathered data to track stocks using multiple evaluators such as P/E to compare current evaluation to historical evaluation