PAVAN KUMAR DHARMOJU

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SUMMARY

Data Scientist with over 3 years of experience in analytics and data science, specializing in finance and marketing analytics. Proven expertise in leveraging data-driven insights to inform strategic decision-making and optimize business performance. Skilled in SQL, Python, statistical modeling, and data visualization. Strong expertise in A/B testing, statistical modeling, and translating complex analyses into actionable business insights. Experienced in working with cross-functional teams to drive product and marketing decisions.

SKILLS

- Data Analysis: Python, R, JavaScript, SQL, Snowflake, Scala, Tableau, Power BI, Flourish, Excel
- Programming Languages & Tools: Hugging Face, AWS ECS, EC2, Kinesis, S3, Lambda, RDS, IAM, Docker, Mlflow
- Machine Learning & Modeling: Pandas, NumPy, Scikit-Learn, PyTorch, TensorFlow
- Certifications: Salesforce Certified Administrator, Tableau CRM & Einstein Discovery Consultant.
- Frameworks: Jenkins, Docker, Apache Airflow, LangChain
- Methodologies: Agile, Lean, Scrum, Kanban, Continuous Integration/Continuous Deployment (CI/CD)
- Big Data: Hadoop, Spark, MapReduce, Hive
- Algorithms: Decision Tree, Random Forest, Gradient Boosting, XGBoost, Logistic Regression, Linear Regression

EDUCATION

Northwestern University, Chicago - M.S. in Artificial Intelligence.

August 2023- December 2024

Coursework: NLP, Al Practicum, Deep Learning, Design & Analysis of Algorithms, HCl, Data Science pipeline Projects:

- Scalable Sentiment Analysis for Content Publishers: Developed an NLP model to analyze over 1 million articles, providing actionable insights.
- Truck Fleet Optimization Using Reinforcement Learning: Built an RL model to optimize maintenance strategies, reducing operational costs.

Indian Institute of Technology Madras - Diploma in Data Science.

Publications: "Ranking System for All Tourism Related Industries Using NLP Approach", IEEE ICCCNT, 2022. [Link], "Forecasting Electrical Demand for Residential Sector Using Deep Learning", IEEE AIMV, 2021. [Link], "Ranking System for All Tourism Related Industries Using NLP Approach", IEEE ICCCNT, 2022. [Link]

WORK EXPERIENCE

Intern, Chan Zuckerberg Biohub, Chicago, IL June 2024 - September 2024

- Developed a Retrieval-Augmented Generation model using PubMed Central to enhance immunology research
- Fine-tuned LLaMA 3.1 and OpenAl models, integrating them into a web application for data analysis & generation.
- Designed scalable RESTful APIs using AWS, enabling large-scale data processing for bioinformatics research.
- Web-scraped 6,000,000+ files from multiple APIs improved their metadata and ingested them into the agent

Data Scientist, Healee, Remote September 2023 - April 2024

- Boosted lead generation by 23% through predictive modeling and A/B testing using SQL, Python, and Google Analytics.
- Built Marketing Mix Models (MMM) to optimize marketing spend using SQL and Python.
- Performed A/B testing and statistical analysis to evaluate marketing strategies and growth experiments.
- Automated ETL processes using AWS Lambda and Apache Airflow, reducing data processing time by 10%.

Business Technology Analyst, Deloitte Consulting USI, Hyderabad, August 2021 - September 2023

Awards: Earned SPOT Award for managing ML deployments and data pipelines while leading a 3-person data science team.

- Enhanced customer satisfaction by deploying ML models in Salesforce CRM for personalized recommendations.
- Streamlined deployment, cutting delivery time by 10% through automated CI/CD pipelines with Jenkins and Docker
- Eliminated 20 hours of manual work weekly by automating ETL workflows with Python, improving team efficiency.
- Optimized data processing by 18% by deploying predictive models on AWS, enabling faster client insights.

TECHNICAL EXPERIENCE

Real-Time Demand Forecasting System for Retail Supply Chain Optimization

- Developed a forecasting system using LSTM and XGBoost, reducing stock outs by 18%. The system provided real-time
 updates and integrated with supply chain software for dynamic inventory management.
- Tech Stack: Python, TensorFlow, XGBoost, GCP, Docker, SQL.

Product Categorization System for a Global Marketplace

- Created a BERT-based model for multi-lingual product categorization, providing real-time insights and low-latency processing of millions of products.
- Tech Stack: Python, BERT, PyTorch, AKS, Azure Databricks, Docker, SQL.