

# SAI PREETHI POKA

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## PROFESSIONAL SUMMARY

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Data Professional with over 2 years of experience developing scalable predictive models and optimizing big data processes in high-impact tech environments. Proficient in Python, R, Data Visualization and SQL, with strong problem-solving and communication skills. Demonstrated expertise in machine learning and Data analytics, eager to apply advanced analytical skills to drive strategic decision-making and operational efficiency.

## EDUCATION

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**MS in Information Systems** | GPA: 4.0/4.0

California State University Long Beach | *Expected May 2025*

- **Coursework:** Statistics, Business Data Analysis, Project Management, Machine Learning, Deep Learning, Responsible AI
- **Exam Assistant:** Supported exam administration and ensured a seamless testing environment for students and faculty.

## WORK EXPERIENCE

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### Associate Engineer II (Data Science)

Harman International | *Sep 2021 – Jul 2023*

- Analyzed large-scale point-of-sale and customer data, leveraging Python libraries to build interactive visualization dashboards that uncovered significant new market trends and deeper product performance insights enhancing leadership decision-making.
- Led the development and deployment of trend forecasting algorithms in R, boosting forecast accuracy by 40% and reducing related costs by estimated 28%, equipping product teams with reliable sales demand analysis.
- Delivered a streamlined Revenue Growth Management solution for the Australian division, addressing manual data bottlenecks and improving data access efficiency by 50%, empowering faster strategic decision-making.
- Automated baseline comparisons for algorithm updates using Python/PySpark scripts, ensuring significantly faster testing and deployment cycles and reducing system downtime.
- Generated dynamic, automated PowerPoint presentations through Python that streamlined monthly communication of sales performance metrics to executive teams, ensuring timely and impactful data dissemination.

### Product Analyst Intern

Cognizant Technology Solutions | *Feb 2021 – Jul 2021*

- Contributed to the design and implementation of a full-stack web application prototype, applying Agile methodologies to deliver features efficiently and collaborating with peers to meet project deadlines.
- Compiled detailed technical specifications and collected user requirements, facilitating effective communication between development teams and stakeholders and supporting well-structured Agile sprints.
- Streamlined SQL queries and optimized APIs using Postman, cutting data retrieval time by 20% and improving application performance and data flow.

## SKILLS

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**Programming:** Python (Pandas, NumPy, Scikit-Learn, PyTorch, TensorFlow), R, SQL, PySpark

**ML & Data Science:** Predictive Modeling, Time-Series Analysis, Data Mining, Statistical Analysis & Modeling, Big Data Analysis, Experimentation

**Tools & Technologies:** Tableau, Microsoft Office Suite, Azure Data Lake, Azure Blob Storage, Git, JIRA, Bitbucket, Sourcetree, RabbitMQ, Apache Airflow

**Certifications:** Data Analytics for Business (Coursera), Business Metrics for Data-Driven Companies (Coursera), Excel Skills for Business (Coursera)

## PROJECTS

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- **Retail Purchase Completion Insight Model (Sep 2024):** Developed a Python-based model to predict purchase completion in physical stores using online retail data and synthetic cart images. Improved intervention strategies for discounts and recommendations, enhancing in-store engagement and sales.
- **India Trade Analysis Dashboard (Jun 2024):** Created a Tableau dashboard to analyze India's trade trends, highlighting key dependencies and inefficiencies. Delivered insights for cost reduction and supply chain optimization, guiding data-driven trade policy decisions.
- **Pricing Insights Advantage (Feb 2024):** Developed a Python model using Random Forest and Gradient Boosting ( $R^2 \approx 0.965$ ). Enhanced model accuracy by 15% on 693,000+ records, offering pricing insights for Uber and Lyft.