

# Sai Nihar Reddy Palem

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[Linkedin](#), [Github](#), [Medium](#)

## EXPERIENCE

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**Bharat Electronics Limited, Hyderabad** — *Graduate Trainee*

February 2021- March 2022

### Data analyst:

- Developed and maintained comprehensive information on organization using Python and Pandas, utilizing fetcher & preprocessing modules for efficient data collection.
- Managed a dynamic PostgreSQL database with SQLAlchemy, ensuring robust information handling and data integrity.
- Designed and implemented data visualization dashboards to monitor company sales, expenditures, turnover, and other key financial metrics, facilitating strategic decision-making.
- Built interactive dashboards for centralized government reporting, providing insights into financial performance and operational efficiency.

## PROJECTS

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- **ASL Chatbot:** Developed a chatbot for translating text to American Sign Language (ASL) and back, utilizing MediaPipe and LSTM for accessible sign language communication.
- **Optimal Pathfinding for Lightning Networks:** Utilized machine learning and tensor analysis to enhance transaction efficiency in lightning networks, facilitating faster blockchain transactions.
- **Face Recognition:** Created a facial recognition model using fiducial point extraction and Siamese networks, improving security systems with accurate identity verification.
- **Stock Market Chatbot:** Implemented a multilingual, real-time chatbot powered by Apache Spark and LLM for dynamic stock market analysis, enabling queries in various languages.
- **Twitter Sentiment Analysis:** Conducted real-time sentiment analysis on Twitter using SQL and NoSQL databases, extracting valuable insights from complex data.
- **Stock Market Analysis:** Performed stock market trend forecasting using SQL analytics and AWS RDS, demonstrating cloud computing's effectiveness in handling large datasets.
- **Personal Portfolio Website:** Built a portfolio website with Streamlit and Python, showcasing projects and skills through a data-driven web application.

## EDUCATION

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**San Jose State University, California, USA** — *MS in Data Analytics*

January 2023 - December 2024

Relevant coursework: Deep learning, Machine learning, Data mining, Big data technologies, Data visualization, Database management system.

**Sreenidhi Institute of Science and technology, Hyderabad, India** — *B.tech in EEE*

June 2015 - June 2019

Relevant coursework: Data Structures and C++, Java Programming, Managerial Economics and Financial Analysis Entrepreneurship, IPR, Patent Management, Banking Operations Insurance and Risk Management.

## SKILLS

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### Core Skills:

- Programming: Python, SQL
- Machine Learning/Deep Learning: PyTorch, TensorFlow, Keras, scikit-learn
- Data Engineering: pandas, NumPy, Apache Spark, Hadoop
- Visualization & Deployment: Matplotlib, Seaborn, Plotly, Tableau, Power BI, Streamlit, Flask

### Technologies & Tools:

- Cloud & DevOps: AWS, GCP, Azure, Docker, Git
- Databases: MySQL, PostgreSQL, MongoDB
- Collaboration & Project Management: JIRA, Notion