# PRANEETH PALLETI

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## CAREER SUMMARY

Results-driven Data Science graduate with a robust background in Business Intelligence and data analytics. Proficient in designing and implementing data reporting systems that enhance business decision-making capabilities. Adept at analyzing customer data to inform strategic business initiatives and updating business intelligence tools and dashboards to reflect evolving needs. Collaborative team player with experience working across departments to execute data science projects. Possesses strong communication skills, enabling effective presentation of insights to both technical and non-technical stakeholders. Technical proficiencies include SQL, Python, machine learning techniques, and data visualization tools such as Tableau. Committed to leveraging data-driven strategies to contribute to impactful business decisions in a dynamic environment.

## EDUCATION

**Master of Science:** Data Science, University at Buffalo, The State University of New York — Dec 2024
**Bachelor of Engineering:** Computer Science and Engineering, Presidency University — May 2023

## SKILLS

1. **Languages:** Python, R, SQL, Scala
2. **Machine Learning:** Classification, Regression, Clustering, NLP, Decision Trees, Neural Networks, SVM
3. **Frameworks:** Keras, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib
4. **Business Intelligence:** Data Modeling, Data Warehouse, ETL, Reporting Solutions
5. **Technologies:** Tableau, Power BI, Hadoop, Spark, SAS, Azure, Databricks
6. **Soft Skills:** Leadership, Problem-Solving, Team Collaboration, Analytical Thinking

## EXPERIENCE

### Skin Cancer Detection Using Deep Learning — Nov 2024

- Developed an accurate, automated tool to aid early skin cancer diagnosis.
- Built and optimized CNN models (VGG16, ResNet) with TensorFlow, achieving 90% accuracy and cutting training time by 20% through preprocessing improvements.
- Enabled faster, reliable skin cancer detection to support healthcare professionals.

### Buffalo Crime Data Analysis: Website Creation and Crime Forecasting — Sep 2023

- Created a platform to analyze and forecast crime data for enhanced public safety.
- Led a team to process 305,000 records, uncover patterns, and build a forecasting model in Flask, achieving 80% accuracy.
- Provided a tool for crime trend forecasting to aid city authorities in preventive actions.

### All-Star Football Team Selection Using FIFA 18 Data — (Jun 2023 - Aug 2023)

- Analyzed data to optimize the selection of a high-value all-star football team.
- Examined 300,000 player records and visualized key stats in Tableau for a team worth €636.0 million, increasing decision speed by 20%.
- Enabled informed, faster team composition decisions for "The Board."

### Apple Price Prediction Using Twitter and Yahoo Fin Data — (Jan 2023 - May 2023)

- Addressed the challenge of predicting Apple's stock price by combining unstructured social media sentiment Twitter data with historical financial trends Yahoo Finance, aiming to enhance prediction accuracy with diverse data sources.
- Developed an end-to-end solution by performing sentiment analysis using NLP techniques on Twitter posts, applying time-series modeling ARIMA, LSTM to financial data, and integrating results into a machine learning framework for predictive modeling.
- Achieved a 15% improvement in stock price prediction accuracy over baseline models, demonstrating the value of combining alternative data sources with traditional financial analysis.

## CERTIFICATIONS

**Excel Fundamentals for Data Analysis** - Macquarie University — Feb 2024
**Data Science for Engineers** - NPTEL — Mar 2023