# SIDDARTHA BANDI

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**Data Science graduate student with a strong foundation in machine learning, statistical analysis, and data visualization. Experienced in data driven research, financial data analysis, and business intelligence. Adept at applying data science techniques to extract actionable insights and support decision-making. Passionate about leveraging data analytics for impactful solutions in various industries.**

## Skills

- Data Analysis & Visualization (Python, R, Tableau, Power BI)
- Machine Learning & Statistical Modeling
- SQL & Database Management
- Data Cleaning & Preprocessing
- Natural Language Processing (NLP)
- Predictive Modeling & Forecasting
- Big Data Processing (Spark, Hadoop)
- Cloud Computing (AWS, Google Cloud)
- Business Intelligence & Data-Driven Decision Making

## Work History

**Runway Assistant: Center for Innovation, University of North Dakota, Grand Forks, ND**
**Jan 2024 - Present**

- Supported aspiring entrepreneurs in refining business ideas, developing strategic roadmaps, and launching ventures.
- Organized workshops and facilitated discussions on business development tools such as Napkin Drawing, Idea Scoping, and Commercial Problem Tools.
- Assisted in curating startup accelerator programs, fostering an environment that nurtures innovation and business growth.

**Graduate Research Assistant: University of North Dakota, Grand Forks, ND**
**Aug 2024 - Feb 2025**

- Conducted advanced bibliometric analysis using data intelligence and visualization techniques to examine research team composition and funding impact.
- Leveraged machine learning models to analyze publication trends, citation impact, and research productivity.
- Processed and analyzed large datasets from Web of Science to study gender diversity and funding influence on research output.
- Developed interactive dashboards and visual reports to present findings to stakeholders and policymakers.

**Data Analyst Intern: Mashreq Bank, Remote**
**Jan 2023 - June 2023**

- Analyzed complex financial datasets to uncover patterns and trends for business insights.
- Applied machine learning techniques for predictive modeling and risk assessment.
- Created visual reports and dashboards to present findings to stakeholders.
- Assisted in the automation of data workflows, improving efficiency and reducing manual efforts

**Data Science Intern: Dishaam Solution, Remote**
**June 2020 - July 2020**

- Conducted data preprocessing and analysis using Python and SQL.
- Developed machine learning models to identify trends and patterns.
- Created interactive dashboards for data visualization and insights presentation.

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## PROJECTS & RESEARCH

**Bibliometric Analysis of Research Team Composition & Funding Impact**

- Conducted an in-depth bibliometric analysis using machine learning and network visualization to assess research team gender diversity and funding influence.
- Analyzed large-scale publication data from Web of Science to study citation impact and funding trends.
- Developed interactive dashboards and reports to present key insights for policymakers and research institutions.

**Multi-Linear Regression Model for Predictive Analysis**

- Developed a multi-linear regression model using Gradient Descent to analyze the relationship between independent variables and target predictions.
- Implemented optimization techniques and validated model accuracy through Mean Squared Error (MSE) and R-Squared values.
- Generated predictive insights through regression analysis for real-world business applications.

**Global GDP Growth Trend Analysis Using Tableau**

- Conducted an economic data study on global GDP growth using World Bank data.
- Created interactive Tableau dashboards to visualize country-wise economic growth trends.
- Analyzed the impact of global events such as COVID-19 on GDP fluctuations.

**Cryptocurrency Price Prediction Using FbProphet & TensorFlow**

- Implemented time series forecasting models using Facebook's FbProphet and TensorFlow to predict cryptocurrency prices.
- Compared model performances and optimized hyperparameters for accurate financial forecasting.
- Created visualizations to track price trends and assess prediction accuracy.

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## Education

Master of Science in Data Science, Expected in June 2026, University of North Dakota, Grand Forks, ND

Bachelor of Technology in Data Science And Artificial Intelligence, June 2023
ICFAI Foundation For Higher Education, Hyderabad, Telangana, India