

SUDEEKSHA VANDRANGI

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EDUCATION

Arizona State University, Tempe, AZ

August 2023 – May 2025

Master of Science in Data Science, Analytics, and Engineering

GPA : 3.96/4.0

National Institute of Technology (NIT), Rourkela, India

July 2019 - June 2023

Bachelor of Technology in Metallurgical and Materials Engineering

GPA : 8.91/10.0

TECHNICAL SKILLS

Programming / Scripting Languages: Python, SQL, Scala

Big Data Frameworks and Cloud Platforms: Apache Spark, Databricks, Microsoft Azure, Streamlit Cloud

Data Visualization / Analytics tools: Tableau, PowerBI

Frameworks: PyTorch, Tensorflow-Keras, PyTorch-Forecasting, PyTorch-Lightning, Scikit-Learn, Pandas, XGBoost, NumPy

Data Science and ML Skills: Time Series Analysis, Demand Forecasting, Natural Language Processing (NLP), A/B Testing

EXPERIENCE

Data Scientist Intern | Lennox International, TX

June 2024 - August 2024

- Designed a multivariate time series forecasting model using a **Temporal Fusion Transformer** trained on **9M+** data points to predict HVAC schedules for thermostat setpoints.
- Optimized model predictions and performance using **Apache Spark** and **PyTorch-Forecasting** by analyzing processing over **5M+** data points daily on **Azure ML Studio** and **Databricks**, **increasing forecast accuracy by 10%**.
- Implemented real-time feedback loops via **Azure Communication Services**, streamlining continuous improvement through email and SMS notifications.
- Resolved edge device integration issues by **collaborating with cross-functional teams** and **using organizational skills**, to improve **compatibility between cloud-based and device-based predictions**.
- Successfully **deployed the forecasting model into production**, with the project set to go live in **Q3 of 2025**, enabling real-time HVAC schedule optimization at scale and **communicated the impact** to senior leadership.

Technical Trainee Intern | Tata Steel Pvt. Ltd., India

May 2022 - July 2022

- Decreased defective slab production by **15%** by performing root cause analysis using **SQL** and **Python**, identifying key process inefficiencies and improving material quality.
- Built a logistic regression model with **90.43%** accuracy to predict defective units and automated monthly defect reporting, reducing reporting time by **40%** and presented actionable insights to senior management.
- Recognized for exceptional performance and **offered a pre-placement position** to join Tata Steel full-time, highlighting technical and business acumen, with the ability to deliver impactful results.

PROJECTS

AI Medical ChatBot | Streamlit, Gemini 2.0, Pinecone, LangChain

March 2025

- Built a scalable chatbot using **Gemini 2.0** and vector search to provide real-time answers from medical documents.
- Deployed via Streamlit Cloud; implemented PDF ingestion, API security, and semantic search using Pinecone.

Data Science Mentor AI Assistant | Gradio, OpenAI, Claude, Python

March 2025

- Built an AI-powered mentor that explains data science concepts, debugs code, and reads documentation aloud.
- Integrated GPT-4o and Claude models with voice response, code execution, and documentation lookup tools

CodeNudge: AI-Powered Technical Interviewer | Python, Langflow, WhisperAPI

October 2024

- Built a functional **LLM-driven interviewer prototype** in **24 hours**, integrating **Whisper API** for speech-to-text conversion and real-time feedback.
- Designed an interview process simulating coding rounds, providing **dynamic hints and follow-up questions** for candidate guidance.

CERTIFICATIONS

Introduction to Transformer-Based Natural Language Processing, *NVIDIA*

January 2025

Using Python to Access Web Data, *University of Michigan*

June 2020