SUDEEKSHA VANDRANGI

Tempe, AZ, USA • sudeekshav.proj@gmail.com • 602-552-2398 • LinkedIn

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: PySpark, Apache Spark

Data Visualization / Analytics tools: Tableau, PowerBI

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

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

Cloud Platforms: Databricks, Azure ML Studio

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

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.

Personalized CLTV Segmentation for Insurance | Python, Gradient Boosting, K-Means   **April 2024**

- Predicted **Customer Lifetime Value (CLTV)** with an **R^2 of 0.925** using Gradient Boosting, enabling revenue optimization strategies.
- Segmented **100,000+** customers into distinct groups via **Mini Batch K-Means**, improving resource allocation inefficiencies by **15%.**

CERTIFICATIONS

Introduction to Transformer-Based Natural Language Processing, *NVIDIA*   **January 2025**

Using Python to Access Web Data, *University of Michigan*   **June 2020**