Pranav Sai Putta

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PROFESSIONAL SUMMARY

Experienced Data Scientist with proficiency in statistical analysis, machine learning, and data-driven decision-making. Collaborated with cross-functional teams to understand business objectives. Skilled at optimizing data models and big data technologies to extract actionable insights. Committed to translating complex datasets into innovative solutions and scalable data strategies for organizational growth.

EDUCATION

Master of Science in Data Science   **May 2024**
George Washington University, Washington DC.

- *Cabinet Secretary, GW Data Science Association*

Post-Graduation Program in Data Science   **December 2019**
International School of Engineering (INSOFE), Hyderabad, India**.**

Bachelor of Technology in Mechanical Engineering   **May 2019**
Sreenidhi Institute of Science and Technology**,** Hyderabad, India

- *Head of Vehicle Design at SAE-INDIA-SNIST (University Automobile Club)*

PROFESSIONAL EXPERIENCE

DATA SCIENTIST, AGS HEALTH, Hyderabad, India   **December 2019 – July 2022**

Recognized with Star Performer award in Business Analytics, for addressing business objectives and meeting client requirements.

Predictive Voice Analytics for Revenue Cycle Management (RCM) efficiency.

- Streamlined claims processing by addressing extended hold durations experienced by claims representative.
- Leveraged 60,000 voice logs, isolating audio gaps, hold patterns, voice segments using PyAudio, synthesizing insights.
- Applied Machine Learning model achieving 67% reduction in call wait times, enhancing claim resolution efficiency.

Medical Coding Automation.

- Developed a predictive solution to automate medical coding from detailed physician reports.
- Employed NLP techniques to extract and highlight diagnostic indicators, making predictions transparent.
- Achieved 45% reduction in coding time, significantly enhancing productivity of coding department.

Claim Quality Assurance Tool

- Developed a machine learning model to pre-emptively identify potential claim errors created by billing specialists.
- Implemented a system to prioritize high-risk claims for auditors, ensuring claim accuracy pre-submission.
- Resulted in a 9% operational savings by reducing claim rejections due to human error.

SELECTED PROJECTS

Anime Recommendation Engine – AnimeHub *(Link):*

- Engineered a robust recommendation engine, refining content personalization based on user ratings.
- Deployed "Anime Whisperer" feature, leveraging Natural Language Processing to match user-described plots to comprehensive anime databases, enhancing title discovery.
- Integrated an analytic dashboard via Streamlit, to offer insights on user behaviour, anime trends, and system efficacy.

Flight Price Analysis and Prediction *(Link):*

- Deployed statistical analysis on airline ticket prices post pandemic to derive insights into airline pricing strategy.
- Engineered an ML model to predict airline prices based on strategies observed achieving MAPE as low as 15%.

TECHNICAL SKILLS

- Languages & Cloud: Python, R, SQL, AWS (EC2, S3, Sagemaker, Lambda), GCP, Azure (Azure ML, HDInsight).
- Tools, Visualization & Frameworks: Sklearn, Pandas, NumPy, Keras, TensorFlow, Docker, Git, Power BI, Tableau, Excel, Airflow.
- ML, AI Techniques & Analysis: Supervised/Unsupervised Learning, Deep Learning (CNN, RNN, Transformers), NLP, Anomaly Detection, Data Wrangling, Feature Engineering, Hypothesis Testing, A/B Testing.s

CERTIFICATIONS

AWS Certified Solutions Architect Associate, AWS Certified Machine learning – Speciality, Machine learning (Stanford University), Deep Learning Specialization(deep learning.ai).