VIGNAN VENNAMPALLY

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EDUCATION

Northeastern University, Boston, USA Expected June 2023
Masters in Data Analytics Engineering, (GPA: 4/4)
Course Work: Machine Learning for Engineering, Data Management for Analytics

Indian Institute of Information Technology, Jabalpur, India July 2020
Bachelors in Electronics and Communication Engineering, (GPA: 7.6/10)

TECHNICAL SKILLS

Programming: Python (Pandas, NumPy, Scikit-learn, SciPy, Seaborn, Matplotlib, TensorFlow, Keras, PyTorch), R, SQL, C
Data Engineering & Databases: ETL, Hadoop, Apache Spark, MySQL, MongoDB
Tools & Technologies: Azure, AWS, Linux OS, Power BI, Tableau, Excel, MATLAB
Modeling: Machine Learning, Deep Learning, NLP, Statistical Modeling, Hypothesis Testing, A/B testing

PROFESSIONAL EXPERIENCE

Data Science Co-op | Alexion AstraZeneca Rare Disease, Boston, MA Jun 2022 - Present

- Co-ordinated with the Business & Product Commercialization team to understand Business requirements & formulate hypothesis to answer business use cases
- Conducted deep dive analysis of 1TB Claims, Prescription data to trace NF1 patient diagnosis patterns to increase commercial usage of KOSELUGO
- Identified 4 different drivers of Koselugo initiation & Developed 7 business rules that accelerated potential patient identification
- Leveraged Exploratory Data Analysis & Predictive Modeling techniques to understand diagnosis combinations and identify target HCPs with 95% accuracy

Data Scientist - Product Dataiku| Ericsson India Global Services, Bangalore, India Aug 2020 - Aug 2021

- Centralized ML tasks that unify Business, AI & IT teams through engineering the configuration of Dataiku DSS in three different Azure environments
- Co-ordinated with Supply, Sourcing, Innovation teams to operationalise Machine Learning Projects and train 200 client team members
- Facilitated brainstorming sessions with stakeholders to identify business problems and on-board new features to the product

Data Science Intern - Product mooKIT| IIT Kanpur, India May 2019 - Nov 2019

- Extracted & Analyzed 100GB member Data from internal MongoDB, MySQL databases of 2 MOOC Courses
- Developed Supervised ML model that predicted dropout rates of mooKIT Platform with 94.5% accuracy & Increased Active User count by 25%
- Improvised Dynamic Statistical Analysis of 400 Member Data by redesigning analytical Interface using plotly
- Partnered with Marketing team to measure and improve Product metrics like User Adoption, Customer retention

PROJECTS

Twitter Airline Sentiment Analysis - NLP Research Assistant

- Performed tweets extraction from 5 different airline tweets using Twint (Twitter Scraping Tool) to understand the consumer's voice
- Implemented NLP techniques like Stemming, Lemmatization and Vectorization to clean & process the data
- Identified top reasons for Negative Sentiment & most common words from Negative tweets of each airline

Face Detection in Image/Video - Deep Learning Research Assistant

- Tracked Infants breathing & sucking rates through 2 different Face Detection Methods that use concepts of integral Image, Attentional Cascade, Bounding boxes, Non-Maximum Suppression techniques
- Reduced Number of False Positive (FP) predictions & Improved Model performance to 92% accuracy through multi-cascade deep learning neural networks

Facebook Ads and Google Ads Data Analysis, Postman

- Implemented CRISP-DM methodology and performed Exploratory Data Analysis (EDA) leveraging Spends per Click metric to study the Ads campaign performance
- Implemented Descriptive, Inferential, and Predictive Modeling and Analytics improved CLTV by 22 percent