KARTIK RAUT

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EDUCATION

Northeastern University (GPA:4.0/4.0)   **Boston, MA**
Master of Science, Data Analytics Engineering   *Expected May 2025*
Nagpur University   **Nagpur, India**
Bachelor of Engineering, Electronics and Telecommunication   *Oct 2020*

TECHNICAL SKILLS

Programming: Python (NumPy, Pandas, Matplotlib, Scikit-learn, PyTorch, Seaborn), SQL, HTML, CSS, JavaScript
Databases: MySQL, Oracle SQL Developer, MongoDB, PostgreSQL
Cloud Technologies: AWS, Oracle Cloud Infrastructure, Azure
Machine Learning: Supervised and Unsupervised Algorithms, EDA, Data Mining, Data Modeling, Data Visualization
Statistics: Significance Testing, Data Sampling and Distribution, Dimension Reduction, Non-parametric Methods
Other Tools: Tableau, LangChain, Streamlit, Power BI, Office, Excel, Git, Datawrapper, Flourish, Oracle Siebel CRM
Certifications: Oracle Cloud Infrastructure, Oracle Cloud Data Management

WORK EXPERIENCE

Application Development Analyst
Accenture, Maharashtra, India   *July 2022 - June 2023*
- **Crafted test scenarios** for Vodafone UK, impacting 15M+ postpaid and prepaid telecom customers, and oversaw production releases for seamless operations.
- Effectively **resolved complex issue** of SurePay telecom products using **PuTTY SSH client**, implementing rigorous checks for precise billing accuracy and fine-tuning network settings for **optimal system functionality.**
- Executed 500+ monthly Robo Tester Evolution scripts, tracking bugs and conducting quarterly regression on 1350+ products to meet business needs.
- Deployed Robo Tester Evolution to rigorously validate multiple tariffs across diverse zones and band labels for various call flows, **ensuring precision and reliability** for both prepaid and postpaid products.
- Contributed to the **SDLC** by conducting thorough **regression testing and validation.**
- Displayed **cross-functional leadership, problem-solving and decision-making** skills while guiding team of associates.

Application Development Associate
Accenture, Maharashtra, India   *Dec 2020 - June 2022*
- Spearheaded **data extraction** efforts using **SQL Developer**, ensuring precise and efficient retrieval of information for testing purposes of telecom packages and resolving complex quantitative problems.
- Tailored telecom product test plans through meticulous analysis of functional/business requirements.
- Managed the execution, analysis, and debugging processes within **Oracle Siebel CRM**

PROJECTS

- **Los Angeles Crime Data Analysis**, Conducted **EDA** and **data cleaning** on crime time series data for Los Angeles, leveraging **Facebook's Prophet** model to predict weekly trends. Analyzed crime types, correlating with events and socio-economic factors, and crafted visualizations to interpret influences on city crime trends. GitHub
- **Customer Segmentation RFM Analysis**, Analyzed an E-commerce dataset to categorize customers based on their purchasing behavior using **RFM analysis**. Utilized **K-means Clustering** to segment customers using RFM scores, leading to targeted marketing recommendations. GitHub
- **EEG Classification Model**, Employed **Logistic Regression, Random Forest, Decision Tree, and XGBoost** for binary and multi-class seizure classification. Achieved outstanding F1 scores of 94% and 73% with XGBoost in binary and multi-class scenarios, respectively. GitHub
- **Tiles Texture Search**, Developed a **Convolutional Neural Network (CNN)** for image classification, emphasizing texture extraction of tiles in a dataset. Achieved a train loss of 0.252 and a train accuracy of 92.30%, with promising performance on the validation set: val loss of 0.566 and val accuracy of 82.00%. Demonstrated proficiency in training deep learning models for image processing and classification. GitHub
- **Exploring Energy Production and Consumption Dynamics**, Collaborated on a team project to create a comprehensive **Tableau dashboard** illustrating global energy production and consumption trends. Utilized various presentation techniques to craft dynamic data visualizations, enhancing storytelling within the data. Try it!