

KARTIK RAUT

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EDUCATION

Northeastern University, Boston, MA. (GPA: 4.0)

Expected May 2025

Master of Science in Data Analytics Engineering

Courses: Foundation of Data Analytics, Data Visualization, Data Mining, Database Management for Analytics

Yeshwantrao Chavan College of Engineering, Nagpur, India

Oct 2020

Bachelor of Engineering in Electronics and Telecommunication

SKILLS & CERTIFICATIONS

Programming: Python (NumPy, Pandas, Matplotlib, Scikit-learn, PyTorch, Seaborn), SQL, HTML, CSS

Databases: MySQL, Oracle SQL Developer, MongoDB, PostgreSQL

Cloud Technologies: AWS, Oracle Cloud Infrastructure, Azure

Machine Learning & Statistics: Supervised and Unsupervised Algorithms, EDA, Data Mining, Data Modeling, Data Visualization, Significance Testing, Hypothesis Testing, Data Sampling and Distribution, Probability

Other Tools: Tableau, Power BI, Microsoft Office, Excel, Git, Datawrapper, Flourish, Oracle Siebel CRM

Certifications: Oracle Cloud Infrastructure, Oracle Cloud Data Management

PROFESSIONAL EXPERIENCE

Accenture

July 2022 – June 2023

Application Development Analyst

Pune, India

- Utilized data analysis techniques to ensure the accuracy and reliability of SurePay telecom product testing procedures
- Crafted test scenarios** for telecom products, impacting 15M+ subscribers on postpaid and prepaid plans, employed data analysis to understand user behavior and tailor test scenarios for maximum impact on customers
- Executed 500+ monthly Robo Tester Evolution scripts, identifying, tracking, and debugging bugs
- Conducted quarterly regression, realigning 1350+ products to meet the latest business requirements
- Demonstrated **cross-functional leadership** and **problem-solving**, utilizing data analysis for informed **decision-making**

Accenture

Dec 2020 – June 2022

Application Development Associate

Mumbai, India

- Coordinated configuration and testing operations for the largest telecommunication giant in the UK
- Played a key role in **data extraction** by leveraging **SQL Developer**, ensuring accurate and efficient retrieval of information for testing purposes of telecom packages and **solving complex quantitative problems**
- Customized telecom product test plans through detailed analysis of functional/business requirements
- Oversaw the execution, analysis, and debugging processes within **Oracle Siebel CRM**
- Contributed to the **SDLC** by conducting thorough regression testing and validation

PROJECTS

Los Angeles Crime Data Analysis (Numpy, Pandas, Seaborn, Time Series, Prophet)

Sep 2023

- Conducted **Exploratory Data Analysis (EDA)** and **Data Cleaning** on time series data related to crime in Los Angeles.
- Utilized Facebook's **Prophet** time series forecasting model, to generate weekly crime predictions
- Analyzed crime types, considering events and correlating with economic and demographic variables
- Designed insightful data visualizations to analyze multifactorial influences on city crime trends.

Customer Segmentation RFM Analysis (Scikit-learn, Numpy, Pandas, Seaborn)

Oct 2023

- Worked with the E-commerce dataset to categorize the customers into different groups based on their purchasing behavior using recency, frequency, and monetary value (RFM) analysis
- Implemented **K-means Clustering** for **customer segmentation** using calculated **RFM** scores
- Divided customers into different categories and formulated targeted marketing recommendations

EEG Classification Model (TensorFlow, Scikit-learn)

Nov 2023

- Utilized **Logistic Regression**, **Random Forest**, **Decision Tree**, and **XGBoost** for binary classification and multi-class classification, distinguishing various types of seizure from non-seizure activity
- Achieved F1 scores of 94% and 73% with XGBoost in binary and multi-class scenarios, respectively

Tiles Texture Search Model (Pytorch, Matplotlib, Numpy, Machine Learning)

Nov 2023

- Implemented a **Convolutional Neural Network (CNN)** for image classification with a focus on extracting similar textures of tiles in a dataset
- Attained a train loss of 0.252, accompanied by a train accuracy of 92.30% and, showed promising performance on the validation set, achieving a val loss of 0.566 and a val accuracy of 82.00%
- Demonstrated expertise in training deep learning models to effectively process and classify images.

Exploring Energy Production and Consumption Dynamics (Tableau)

Dec 2023

- Collaborated with a team to develop a comprehensive **Tableau dashboard** showcasing global energy production and consumption trends
- Employed diverse presentation strategies to craft dynamic, captivating data visualization, facilitating compelling storytelling within the data