

PAYAL SANJAY NAGAONKAR

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EDUCATION

Northeastern University Boston, MA
Master of Science in Software Engineering Systems May 2024
Courses: Data Analysis and Data Management, Business Analytics, Data Structure and Algorithms, Object Oriented Design

SIES Graduate School of Technology, Mumbai University Mumbai, India
Bachelor of Engineering in Electronics and Telecommunication August 2022

PROFESSIONAL EXPERIENCE

BSA ENGINEERING DESIGN CONSULTANTS Mumbai, India
Data Scientist (Part-Time) April 2022 - August 2022

- Orchestrated supervised & unsupervised ML algorithms to predict infrastructure degradation, rehabilitating predictions by 15%
- Fostered a convolutional neural network (CNN) model to analyze and classify satellite images, achieving 95% accuracy
- Assisted in creating recurrent neural networks (RNNs) for time series forecasting, reducing wastage by 20%
- Mentored a team of 5 junior data analysts, emending productivity by 15%
- Conducted two in-house training sessions, implemented agile methodologies, enhancing project efficiency by 15%

STEADFAST SOLUTION PARTNERS Pune, India
Data & Business Analyst Intern (Internship) April 2020 - January 2021

- Created 3+ Tableau dashboards, highlighting key metrics, sales trends, and client preferences
- Utilized MS Excel for advanced statistical analysis, trend forecasting, aiding in a 10% increase in future sales predictions accuracy
- Streamlined SSRS report integration, elevating real-time data retrieval efficiency by 30%
- Boosted operational efficiency by 15% through process optimization and mapping business processes
- Partnered with sales and marketing to data-mine and analyze feedback from 1,200 clients, improving customer satisfaction by 25%

SIES GRADUATE SCHOOL OF TECHNOLOGY Navi Mumbai, India
Data Analyst Intern (Software Focus) December 2019 - January 2020

- Engineered a responsive web application in HTML, CSS, SASS and PHP for one of the leading colleges in Navi Mumbai
- Coordinated with a team to integrate the CakePHP framework; utilized data from PHP Unit libraries to optimize performance
- Employed Javascript for data-driven improvements of dynamic web elements to enhance user experience
- Facilitated preliminary data analysis for mobile application development and executed optimizations in backend database processes

TECHNICAL SKILLS

Languages and Framework: Python (Keras, Scikit-Learn, NumPy, Pandas), SQL (MySQL, PostgreSQL), Java
ML & AI: Supervised & Unsupervised Learning, Deep Learning, Reinforcement Learning, Transfer Learning
Big Data, Data Visualization & BI Tools: Tableau, Seaborn, MS Excel, Power BI, SSRS reporting, Spark, AWS
Web Development & Tools: Git, GitHub, Docker, HTML, CSS, JavaScript, Streamlit, Flask
Soft Skills: Strategic Decision Making, Leadership, Cross-functional Collaboration, Research & Publication

ACADEMIC PROJECTS

Pizza Sales Analysis Project January 2023 - April 2023
(PostgreSQL, Power BI, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn)

- Employed PostgreSQL to scrutinize a dataset of 10,000+ orders, unveiling pivotal sales patterns and insights
- Formulated 20+ SQL queries, highlighting a top-selling pizza comprised 18% of sales
- Identified lowest-selling items, cutting waste by 20% and boosting revenue by 10% within three months
- Calculated total/average revenue, contributing to a 12% increase in operational efficiency

Development of Customer Complaint Dashboard in tableau (Pandas, NumPy), SQL, MySQL, Tableau January 2023 - March 2023

- Led processing and analysis of over 720,000 lines of raw complaint data annually, delivering reliable insights from 1.5 million data points for a major e-commerce client
- Developed a dynamic Tableau dashboard, enabling real-time monitoring across 15 complaint categories and 50 states
- Augmented customer support efficiency by 40%, leading to significant improvements in customer satisfaction and a 20% annual increase in customer retention

LEADERSHIP / AWARDS

- Awarded second best project proposal at Ideation technical event; prepared and presented a quick draft for Car ABS integrated with motion and vision sensors
- Ranked third in NIRMAN 2019 among intercollegiate participant teams for project proposal; envisioned a project draft for Campus Lunch Service for underprivileged students