

Ankita Sanjay Shinde

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PROFESSIONAL SUMMARY

Results-driven data professional with expertise in data engineering, predictive modeling, and business analysis. Holds a Master's in Informatics (Analytics) from Northeastern University and has delivered proven success at IBM, Power of Patients, and Rockhead Consulting. Recognized with IBM Performance Awards in 2019 and 2020 for outstanding performance, and has shared industry insights through guest lectures on Agile Methodology. Demonstrates the ability to transform complex datasets into actionable insights by building efficient data pipelines, leveraging advanced analytics, and driving strategic decision-making.

WORK EXPERIENCE

Rockhead Consulting

Annapolis, MD

Senior Business Analyst

September 2023 – Present

- Developed Power BI dashboards consolidating disparate data sources, including Excel and Access, to monitor year-to-date (YTD) finances and business operations in real-time to support data-driven decision-making for stakeholders.
- Enhanced work order administration and enhanced rates of project completions by gauging and tracking critical performance metrics of restoration work in the construction sector as well as electric pole inspections, boosting operational productivity by 25% in 3 months.
- Designed performance and accounting systems in Excel and Access, streamlining payroll processing and enabling the admin staff to reduce contractor payment calculation time by 40%, improving accuracy and compliance.
- Proactively maintained payroll compliance effectively by identifying and addressing lacking contractor data before payroll cutoff dates, with 100% on-time payroll processing and compliance policy implementation.

Northeastern University

Boston, MA

Graduate Teaching Assistant - Database Management Systems

January 2023 – April 2023

- Evaluated over 200 student assignments utilizing SQLite & provided actionable feedback resulting in 25% increase in overall course grades.
- Mentored 10 students in understanding Database Management concepts, solving course-related problems, & resolving queries regarding assignments.

Power of Patients, LLC

Boston, MA

Predictive Modelling Intern

July 2022 - January 2023

- Collaborated with a team at MIT to devise a predictive model aimed at accurately calculating Injury Impact Severity Score for brain injury patients.
- Designed interactive dashboards using Tableau & Power BI to deliver actionable insights for enhancing company product Sallie, while also conducting sentiment analysis using Natural Language Processing on patient data to identify key trends & findings.
- Improved the company's PostgreSQL database architecture by implementing data normalization resulting in a 40% reduction in processing time.
- Managed end-to-end execution of a client project, delivering results that exceeded expectations & ensuring complete client satisfaction.

IBM

Bangalore, India

Data Engineer

August 2018 – August 2021

- Designed & implemented efficient Big Data pipeline architectures processing 40+ million records, resulting in reduction of over 50% in processing time.
- Tested complex data pipelines using SQL queries to process millions of records in DB2 Database, ensuring data quality, & integrity standards were met.
- Created UNIX shell scripts for automating multiple processes in IBM DataStage jobs, resulting in significant time savings & improved efficiency.
- Offered exceptional technical support to clients & addressed data infrastructure needs with a maximum response time of one day.
- Provided mentorship to 10 new developers, facilitating onboarding process, & imparted guidance to ensure integration into development team.

PROJECTS

Analysis of San Francisco Police Department's Incident Report Dataset

Northeastern University, Boston

- Conducted comprehensive data preprocessing to clean & transform data & utilized Tableau & Qlik data visualization tools to communicate key findings.
- Extracted meaningful insights from data analysis on various trends such as variation of resolution rate by type of incident & report type, distribution of crime incidents by time-period, & identification of neighborhoods with higher crime rates & most commonly reported types of crimes in those areas.

Prediction of Deaths from Pneumonia and Influenza

Northeastern University, Boston

- Devised a predictive model using National Center for Health Statistics dataset containing information regarding deaths by Pneumonia & Influenza in the USA to forecast State-wise & National expected deaths in the coming years with a high accuracy of 93.4% & 95.2% respectively.
- Leveraged Linear Regression, Decision Tree, & Random Forest predictive modeling techniques to accurately predict deaths by pneumonia & influenza.

Detection and Classification of Brain Tumors using MRI Scans

Walchand College of Engineering, India

- Built an automated system in Python to analyze brain MRI scans & detect tumors, providing an accurate grading of tumors based on features.
- Applied Image Preprocessing & Image Segmentation techniques to detect & extract tumor features, followed by utilization of k-Nearest Neighbors, Support Vector Machines, & Decision Trees to grade tumors with a high accuracy rate of over 94% after a comprehensive study of Medical Imaging.

CERTIFICATIONS

- PMI Professional in Business Analysis (PMI-PBA) | PMI
- IBM Data Science Professional Certificate | IBM
- Microsoft Certified: Azure Data Engineer Associate | Microsoft
- Machine Learning | Stanford University
- Microsoft Certified: Azure AI Fundamentals | Microsoft
- Big Data Specialization | University of California San Diego

EDUCATION

Northeastern University

Boston, USA

Master of Professional Studies (MPS), Informatics - Analytics concentration. GPA: 3.83/4

September 2021 – July 2023

Walchand College of Engineering

Sangli, India

Bachelor of Technology, Computer Science and Engineering. CPI: 7.21/10

July 2014 - May 2018

SKILLS

- Programming** : Python (NumPy, Pandas, Scikit-learn, BeautifulSoup, Matplotlib), SQL, Unix, R, Java, C++, C, HTML, CSS, PHP, JavaScript
- Databases** : PostgreSQL, MySQL, IBM Db2, Oracle Database, MongoDB, Cassandra, Microsoft SQL Server, SQLite, Neo4j
- Data Visualization** : Tableau, Microsoft Power BI, Qlik Sense, QlikView, Google Looker Studio, Google Charts, Datawrapper, Plotly, Seaborn
- Machine Learning** : Regression, Clustering, K-Nearest Neighbors, Principal Component Analysis, Support Vector Machines, Decision Trees, Random Forests, Association Rule Learning, Naive Bayes, Artificial Neural Network, Natural Language Processing
- Tools & Technologies** : Microsoft Azure, IBM Infosphere DataStage, Databricks, Tableau Prep, Splunk, Hadoop, Apache Spark, MapReduce, Agile Methodologies, Cloud Computing, Jenkins, Jira, Microsoft Office (Excel, Word, PowerPoint), Git, Jupyter Notebook
- Soft Skills** : Detail Oriented, Resourceful, Adaptive, Diligent, Leader, Effective Communication, Team Player, Strategic Thinker