Nikhil Bhosale

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Education

Maters of Science(MS) ITM, Data Analytics and Management **Aug. 2022 – May 2024**
Illinois Institute of Technology, Chicago ***3.7/4.0***

Bachelors of Engineering(BS), Electronics & Computer Engineering **Aug. 2017 – May 2021**
University of Pune, India ***3.5/4.0***

Technical Skills

Programming Languages: Python, R, C++, SQL, Pytorch, Pyspark, HTML/CSS
Analytical Tools: Tableau, PowerBI, Git, MongoDB (NoSQL), Big-Query, SAS
Data Science & AI: Computer Vision, Hypothesis Testing, A/B Testing, Statistical Modelling, NLP, Regression
Tools and Technologies: ETL, Statistics, DevOps, VScode, Excel, Regression, NLP, Clustering
Cloud Technologies: AWS (Certified Solution Architect), Azure (Microsoft Azure Fundamentals), Google Cloud

Experience

Data Research Assistant, IIT Chicago ***August 2023 – Present***

- Enhanced IIT Chicago's finance department resource allocation by **20%** through a **KNN** and **NLP** predictive model, driven by a **15%** improvement in course offering optimization based on precise enrollment forecasts.
- Generated financial database management system based on historical data analysis, reducing excess finance by **25%** and saving the **$300,000+** annually by analyzing various KPI's on **Tableau** dashboard.
- Utilized web analytics to optimize user experience, adopted web technologies like **HTML**, **PHP**, Java, **Ruby**, C#, Python, **JavaScript** and **CSS** resulting in a **25%** increase in website traffic managed on **AWS**.
- Leveraged proficiency in Teradata SQL and **MS SQL servers (SSIS/SSAS/SSRS)** to conduct in-depth data analysis, identifying & mitigating compliance risks by **15%**, also optimizing data manipulation and analysis processes by **25%**.

Data Analyst Intern, Global Shala ***June 2022 – October 2022***

- Gathered business requirements from clients to create reports that **impact business strategies** and created dashboards with data insights to analyze and prove hypothesis on identifying **75%** ideal market locations and business opportunities.
- Extracted data from various data sources in the business and consumer domain, transformed extracted data as per client requests using **SQL, Tableau, Microsoft Excel, and Python**.
- Used fuzzy matching algorithm to accurately fetch **80%** of data by locations in consumer domain for competitor analysis.
- Communicated data evaluation outcomes and updated requirements to data vendors resulting in accurate analysis.
- Developed an **efficient tableau dashboard** to summarize **KPIs** for various businesses reducing reporting time by **28%**.
- Built **comparison charts** to evaluate percent differences in the **annual revenue per brand** for the apparel industry also assisted solution managers to **design business proposals** for upcoming innovation projects for potential clients.

Software Engineer, Accenture ***April 2021 – June 2022***

- Collaborated with onsite client team to migrate & assess **data quality** for vendor and customers master data in SAP which improved data quality by **36%**.
- Designed & **developed a pipeline** to detect and localize steel defects on **13000+ images** containing 4 types of defects using **CNN**, Transfer Learning to improve the quality of manufacturing & detects the defects in steel manufacturing.
- Extracted data from multiple **APIs** & web scraping for our client, performed **sentiment analysis** on datasets using **NLP**, assembled an **automated pipeline** using Python to process multiple datasets, reducing cleaning time.
- Conceptualized & Implemented a full-fledged **web app operating** on Microsoft Power apps, devising an automated workflow using Microsoft Power automate to collect & submit data, **reducing manual work** for 30+ team members.
- Extracted & loaded data from multiple data sources, handled large volumes of data, performed analysis on the datasets using **Oracle SQL** and **Excel** functions like BA, **VLOOKUP** & **Pivot** tables.
- Utilized Power-BI & Excel functions to perform statistical analysis; assessed monthly review findings to the stakeholders.
- Conducted data extraction, transformation & analysis for clients master data, by employed **ORACLE, HADOOP** technologies which accelerated **15%** decision-making.
- Computed **cloud-based reporting** tools, including Tableau and **Excel**, delivering **20+** comprehensive statistical reports to clients, enhancing their data understanding.
- Utilized statistical software like **SAS** and **Python** to extract insights, resulting in the early identification of compliance risks, this approach led to a **10%** reduction in compliance-related issues and minimizing potential financial risks.

Projects

Healthcare Heart Stroke Analysis | *Python, KNN, Logistic Regression, model deployment.* **November 2023**

- Executed **KNN** machine learning models to predict heart strokes in patient using **Python** and **R**. Achieved **85%** accuracy, enhanced data retrieval speed by **50%**, facilitating faster analysis and reporting of heart strokes.

Data Lake Implementation | *Hadoop, Oracle, Apache Project Tools, MS Project* **April 2023**

- Built a data lake architecture for diverse healthcare data types, employed **Google Cloud** Storage for data lake storage and integrated Data Catalog for metadata management, altered data silos by **30%**.

Real-time Data Ingestion | *AWS, APIs, RNN model, SQL* **February 2023**

- Devised a real-time data ingestion system for healthcare sensor data, leveraged **Apache Kafka** for event streaming and used **Apache Flink** for real-time data processing which minimize data latency by **60%**.

IMDB Analytics API | *API, AWS, Python, SQL, Visualizations.* **August 2022**

- Designed **developer API** for IMDB database using AWS technologies, including **DynamoDB**, **SQL**, Elastic Search, **Kibana**, and **Nginx** also conducted data analysis and visualization.

Achievement

"Published Chapter in Wiley-Scrivener Publication",

- Authored a chapter titled **"Hardware Implementation of RNN Using FPGA"** in the esteemed book, **"Artificial Intelligence Applications and Reconfigurable Architectures."** The book is now accessible on Google Books, acknowledging my research to the field of embedded AI architectures and deep learning Neural Networks and machine learning models.