Akshay Kumar Mahto

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SUMMARY

Business Analyst enthusiast with 3 years of experience as a Systems Engineer in Tata Consultancy Services Ltd in analyzing data with SQL, Python, Tableau/PowerBi and Excel. Proficient Knowledge in Statistics, Mathematics and other Analytics tools and technologies. Decent experience in Python, Java, Object Oriented Programming, SQL, and Machine Learning using R techniques.

EDUCATION

University of Illinois, Springfield, IL || Masters In Computer Science   Aug 2024-Dec 2025
Web design, Introduction to database and Management, Machine Learning with R, Data Mining, Data Visualization, **GPA:- 4.0/4.0**
Advanced Database Concepts

Kurukshetra University, Kurukshetra**,** India || Bachelor of Technology In CS   Aug 2017-Oct 2021
Courses: Computer Network, Operating Systems, Data Structures, Compiler Design, Database Systems   **GPA:- 8.2/10**

SKILLS

Analytics & Visualization Tools: Power BI, Tableau, Microsoft Excel Looker, Visio, Alteryx, Hadoop, Google Analytics
Programming Languages: SQL, Java, Python (Pandas, NumPy, SciPy, scikit-learn, Tensorflow, Seaborn), R
Database Management Systems: Microsoft SQL Server, MySQL, Oracle, PostgreSQL, NoSQL, MongoDB, Apache Cassandra

WORK EXPERIENCE

Tata Consultancy Services | Bengaluru, India   **Nov 2021-Aug 2024**
Systems Engineer
● Developed and maintained production applications using Java and UNIX, resolving critical system issues and ensuring 99.9% uptime for Barclays Bank's financial platforms.
● Automated CI/CD pipelines using Jenkins and OpenShift, reducing deployment errors by 30% and accelerating release cycles by 25%.
● Collaborated with onshore teams to troubleshoot and debug Java-based applications, ensuring 100% adherence to project deadlines for high-priority deliverables.
● Implemented monitoring solutions with Splunk and ElasticSearch, improving incident response time by 40% and enhancing system reliability.
● Optimized SQL/MySQL queries for data retrieval and reporting, streamlining customer-facing processes and reducing query execution time by 20%.
● Containerized applications using Spring Boot and MongoDB, achieving seamless integration with OpenShift and improving scalability.
Tech Stack: Java, Jenkins, SQL, OpenShift, Splunk, Elastic Search, UNIX, Git, MongoDB.

Solitaire Infosys Pvt Ltd.| Mohali, India   **Jun 2019 - Oct 2019**
Android Developer Intern
● Developed 4+ Android applications using Java/Kotlin and Android Studio, improving user engagement by 25% through intuitive UI/UX design.
● Collaborated with senior developers to implement best practices in coding and testing, reducing post-release bugs by 35%.
● Integrated XML-based layouts and REST APIs to create dynamic app features, enhancing functionality and user retention.
Tech Stack: Java, Kotlin, XML, Android Studio

PROJECTS

Diabetes Patient Readmitted Prediction |Python, Scikit-Learn, Pandas, Matplotlib **Link**   **Oct 2024 - Nov 2024**
● Built a Python/Scikit-Learn model to predict 30-day readmission risk for diabetic patients. Engineered features from demographics and medical history, achieving **85% accuracy** via Logistic Regression and Random Forest. Optimized preprocessing for missing data and class imbalances, reducing errors by **18%**. Deployment prioritized high-risk cases, cutting readmissions by **22%** and enhancing resource efficiency.

Bank Loan Default Prediction | Rstudio, Data Mining   **Nov 2024 - Dec 2024**
● Analyzed Financial data for 100,000 borrowers using Rstudio to conduct loan default analysis.
● Achieved 96% accuracy in predicting loan defaulters by comparing Random Forest and XGBoost models

Heart Disease prediction Modeling | python, SQL, Tableau, spark   **Aug 2024 - Sept 2024**
● Examined heart disease data of 1.3 M patients with high probability of experiencing heart attacks in future
● Predicted patients at highest risk by developing machine learning models(Random Forest, SVM) with 92% accuracy

Netflix Movies and TV Shows Analysis | Tableau public Link   **Feb 2024 - Apr 2024**
● Analyzed 1.2M+ Netflix titles (movies/shows) to uncover trends in content distribution, release patterns, and genre popularity, identifying 18% dominance of movies over TV shows and seasonal spikes in releases.
● Built 25+ interactive Tableau dashboards to visualize geographic content distribution, year-over-year growth, and audience preferences, enabling data-driven decisions for content strategy optimization.

PUBLICATIONS

Akshay Kumar Mahto, "Artificial Intelligence for the Real World", International Research Journal of Modernization in Engineering Technology and Science, 06/June-2023. Link

CERTIFICATIONS

Data Science Foundations(IBM), AWS Cloud Practitioner Essentials(AWS), Google Advanced Data Analytics(Coursera), Google Data Analytics Professional Certificate (Google), Google Business Intelligence professional certificate (Coursera), IBM Machine Learning Professional Certificate(IBM), Data Analytics CErtificate (UIS Springfield), HTML, CSS, and Javascript for Web Developers(John Hopkins University).