SIDDHARTH SOLANKI

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PROFESSIONAL SUMMARY

Experienced data analyst with a passion for data science and 2+ years of professional expertise, dedicated to advancing accuracy, efficiency, and productivity through data-driven strategies. Proficient in developing AI-powered solutions complemented by hands-on experience in diverse projects, showcasing a commitment to innovation and impactful solutions.

EDUCATION

Master of Science in Data Analytics | San Jose State University, San Jose   *Aug 2022 – May 2024*
Bachelor of Engineering in Computer Science | JECRC University, Jaipur, India   *Aug 2017 - July 2021*

WORK EXPERIENCE

Data Analyst | First Alliance Bank   *Aug 2021 – June 2022*
• Spearheaded a customer churn analysis project for the Zambian Revenue Authority, achieving a 20% increase in customer retention, utilizing **R** for analysis and **SQL** for database querying.
• Enhanced **Oracle Database** query performance by 25%, enabling faster data access and informed decision-making. Leveraged **PowerBI** for advanced visualization.
• Implemented a mobile Point of Sales application with **Java**, as well as created user documentation, and conducted user training sessions reducing customer support queries by 36%.

Data & Systems Analyst Intern | Surya Biofuels Ltd.   *Aug 2020 – July 2021*
•Improved the vehicle tracking system through targeted data analytics using **Python**, achieving a notable 31.5% increase in supply chain accuracy and operational efficiency.
• Executed strategic optimizations to the company's **ERP** system, utilizing data-driven approaches to realize a 22% increase in system performance and throughput.
• Conducted thorough data evaluations to monitor and assess system performance, leveraging technologies such as, **anomaly detection algorithms**, and **statistical analysis** methods to identify anomalies and provide actionable recommendations for process improvements.

Systems Analyst Intern | Airtel Africa   *July 2019 - Aug 2019*
• Collaborated with the network team to analyze customer usage patterns and system performance, leading to a 13% improvement in network efficiency and enhanced stability through informed upgrades and maintenance planning.

SKILLS

♦ Python	♦ SQL	♦ PowerBI	♦ Tableau	♦ Neo4j	♦ Snowflake	♦ Jira	♦ Azure
♦ R	♦ Excel	♦ PL/SQL	♦ AWS	♦ Git/Github	♦ Docker	♦ ETL	♦ Adobe Analytics

PROJECTS

Master's projects   *Aug 2022 – May 2024*
• **Household Waste Management System:** Developed a high-accuracy (90%, target >95%) **AI-powered** waste categorization system, combining **Machine Learning** and deep learning models, with actionable recommendations (**ChatGPT** integration) and user-friendly interface (including integration with **Google Maps API**), leading to a projected 40% reduction in household waste mismanagement.

• **SMPD Challenge: Social Media Post Popularity Prediction:** Outperformed first place solution in the Social Media Popularity Prediction Challenge with a 17% increase in accuracy by developing a **Deep Learning** model in Python to forecast post popularity across platforms. Applied **statistical analysis** and machine learning techniques, including **TensorFlow, NumPy, Keras** and **Scikit-learn.**

• **Car, Lane and Traffic Sign Detection System:** Developed a sophisticated **Detection System** using advanced **Computer Vision** and **Deep Learning** techniques. Leveraged **Convolutional Neural Networks (CNNs)** and frameworks such as **TensorFlow** and **PyTorch** to enhance the capabilities of autonomous vehicles and driver assistance systems. Utilized **OpenCV** for image processing.

• **Bay Area Flood Prediction:** Led the creation of a machine learning model for flood forecasting in the Bay Area with 85% accuracy, integrating **real-time** weather forecasts and historical flood records on cloud **(AWS)** to deliver zip-code level forecasts through a **CI/CD pipeline**, reducing data processing time by 50% and significantly improving local flood preparedness and response strategies.