# Deepak Deokar

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## Education

**Master of Information Systems**
California State University, Long Beach — Aug 2023 - Present
Relevant Coursework: *Statistics, Deep Learning, Responsible AI*

**B.Tech in Instrumentation and Control**
College of Engineering, Pune — Aug 2018 - May 2022

## Technical Skills

**Skills:** Data Analysis, Machine Learning, Financial Modeling, Statistics, AI/ML Systems, DAX
**Programming Languages:** Python, SQL, MATLAB
**Softwares:** Power BI, Tableau, Alteryx, Flask, Android Studio

## Projects

**Bank Loan Analytics and Performance Monitoring**
-Developed an Excel-based dashboard to analyze and monitor key bank loan metrics, including total loan applications, funded amounts, interest rates, and repayment performance.
-Designed dynamic visualizations to provide insights into loan trends by term, state, and borrower profiles, improving data-driven decision-making for loan portfolio management.
-Implemented a detailed comparison of 'Good Loans' and 'Bad Loans' based on repayment status, offering comprehensive insights for evaluating lending performance.
-Optimized data analysis using Excel functions and charts to track critical KPIs like Debt-to-Income Ratio, loan repayment timelines, and interest rate trends.

**Advanced GDP Growth Rate Forecasting Tool**
-Developed a predictive tool using ARIMA models in Python to forecast GDP growth rates, supporting strategic economic decisions.
-Designed a Tkinter-based UI for real-time forecasts with customizable parameters and visualizations.
-Conducted data preprocessing with stationarity tests and optimized ARIMA parameters via grid search.
-Validated model accuracy using MAPE and RMSE metrics, ensuring reliable and actionable forecasts for economic planning.

**NIFTY 50 Long-Term Price Trend Analysis**
-Investigated long-term price trends of the NIFTY 50 index, identifying key periods of growth and decline to inform investment strategies.
-Produced detailed visualizations of trend data, facilitating deeper understanding and strategic planning.
-Utilized advanced time-series analysis to predict future price movements, aiding investors in making well-informed decisions.

**Adidas Sales Analysis**
-Analyzed U.S. sales data to identify strategic insights for market expansion and improved decision-making processes.
-Developed an interactive dashboard to display key sales trends, enhancing stakeholder engagement and decision-making.
-Performed profitability and sales performance analysis, contributing to enhanced product placement and pricing strategies.

## Work Experience

**Programmer Analyst**
Cognizant Technology Solutions — Jul 2022 - Aug 2023
-Conducted data analysis and business intelligence reporting for financial and healthcare clients, identifying key trends and insights to support decision-making.
-Utilized SQL and Python for data extraction, manipulation, and analysis from large datasets, ensuring accuracy and consistency.
-Collaborated with cross-functional teams to gather data requirements and develop reports, dashboards, and visualization solutions using Power BI and Tableau.
-Participated in Agile project management processes to ensure timely delivery of analytics projects and enhancements.

**Data Analyst Intern**
AFour Technologies — Dec 2021 - May 2022
-Assisted in analyzing large datasets to identify trends and patterns, providing valuable insights for client projects.
-Automated data collection and reporting processes, reducing manual work by 30% and improving data accuracy.
-Used SQL and Python to extract, clean, and manipulate data, and developed data visualizations and reports using Power BI and Tableau, enhancing data accuracy and decision-making.
-Collaborated with senior analysts to conduct data quality assessments and support project deliverables.

## Certifications

**Alteryx Designer Core Certification** 2023
**Machine Learning in Data Science** 2022
**SQL for Data Science** 2021