

# Deepak B Deokar

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## Education

### Master's in Information Systems

Aug 2023 - May 2025

California State University, Long Beach

### B.Tech in Instrumentation and Control

Aug 2018 - May 2022

College of Engineering, Pune, India

## Technical Skills

**Skills:** Data Analysis, Machine Learning, Financial Modeling, Statistics, AI/ML Systems, DAX, Finance

**Programming Languages:** Python, SQL, MATLAB

**Tools:** MS-Excel, Power BI, Tableau, Alteryx

## Work Experience

### Programmer Analyst

Jul 2022 - Aug 2023

Cognizant Technology Solutions

- 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

Dec 2021 - May 2022

AFour Technologies

- 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.

### Financial Assistant (Part-time)

Mar 2024 - Oct 2024

California State University, Long Beach

- Managed and updated balance sheets, ensuring financial accuracy and compliance with organizational standards.
- Recorded, tracked, and reconciled invoices, streamlining financial processes and reducing discrepancies.
- Monitored and maintained vendor purchase orders, ensuring timely procurement and adherence to budgets.
- Allocated and posted charges to work orders, maintaining detailed records and ensuring proper cost allocation.

## Projects

### Credit Risk Analysis

- Developed a credit risk prediction model using an ensemble of machine learning algorithms, including Neural Network, Random Forest, and XGBoost, achieving 93% accuracy and an AUC score of 84%.
- Performed comprehensive data preprocessing (handling missing values, encoding, scaling) and exploratory data analysis (EDA) to uncover patterns and correlations in loan applicant data.
- Implemented a stacking ensemble with Logistic Regression as the meta-learner, improving classification of high-risk and low-risk loan applications.
- Evaluated model performance using accuracy, confusion matrix, and ROC-AUC, optimizing the model for robust and reliable credit risk assessment.

### Advanced GDP Growth Rate Forecasting Tool

- Built 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.

### Bank Loan Analytics and Performance Monitoring

- Created an Excel-based dashboard for tracking and evaluating key bank loan metrics such as applications, funding, interest rates, and repayment trends.
- 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.

## Certifications

Alteryx Designer Core Certification 2023

Machine Learning in Data Science 2022

SQL for Data Science 2021