

Prerak Arvindkumar Patel

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EDUCATION QUALIFICATION

Purdue University, Indiana, USA

Jan 2021(enrolled)

Master of Science – Business Analytics & Information Management

Pandit Deendayal Petroleum University, Gujarat, India

May 2012 - June 2016

Bachelor of Technology - Petroleum Engineering (Major-Upstream)

WORK EXPERIENCE

Concept Petro-Chem. Pvt. Ltd., Ahmedabad, India

July 2017 - Nov 2020

Business Analyst

- Facilitated in-depth analyses for business optimization, boosting revenue by 9.4%.
- Administered predictive analyses for petrochemical asset management, reducing downtime by 11.3%.
- Revised pricing strategy amidst furnace-oil market crisis in wake of IMO's 2020 Global Sulphur Limit.
- Devised demand and revenue forecasts with the introduction of the new GST tax regime.

Reliance Naval and Engineering Ltd., Pipavav Port, India

October 2016 – July 2017

Graduate Engineer Trainee

- Part of the Project-Management team for the Sagar Pragati offshore oil rig conversion project.
 - Achieved 6 project milestones and raised 2 invoices with a cumulative value of USD 5,00,000/-.
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PROJECTS

YouTube Trends Analytics – created Shinyapp for predicting likely popularity of a video using R.

Mortgage Survival Analysis – Applied survival analysis for identifying time to default on mortgage using R.

Twitter Sentiment Analysis for BTC Trading – trained a LSTM model for gauging BTC market sentiment.

Authenticating Categorization of Sales Advertisements – Craigslist ads categorized into spam / non-spam (with subcategorization) using NLP and Image processing.

Companies' bankruptcy forecast – Classifying Potential bankruptcy of firm using SAS EM.

Lending Club Loan Defaulter prediction – Data pre-processing and modeling using Python.

Library Management System – SQL based LMS system with procedures, functions, and triggers.

MEM New Tech Introduction – Market Risk assessment for a new entrant using @Risk.

Forward Software Lawsuit – Decision Tree with Sensitivity Analysis using PrecisionTree.

Vaccine Pricing Analysis – Market research-based pricing strategy using Conjoint Analysis.

Customer Loyalty Analysis – NPV of the net profit from a customer and it's sensitivity with the Churn rate.

CIFAR10 Image Recognition – Trained a CNN model to recognize the object(class) in a given image.

SKILL SET

Programming: R Python, SAS EM

Database management: MySQL, mongoDB

Data Visualization: Tableau, PowerBI

Statistics: Confidence Intervals, Hypothesis Testing, Regression Analysis

Spreadsheet Modeling: @RISK, SimQuick, Minitab, Power Pivot, Solver Table

Data Mining: EDA, Machine Learning, Deep Learning

Unstructured Data Anaysis: web-scraping, NLP, Image Processing

ACCOMPLISHMENTS

IBM Data Science Professional Certificate

Winners – ECS Hackathon 2021 – Espoir: Mental Health App

Rank # 1 – Kaggle Challenge - Bankruptcy Classification Project

Vice President (Marketing) – Krannert Energy Club