

## Prerak Arvindkumar Patel

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### EDUCATION QUALIFICATION

#### Purdue University, Indiana, USA

Jan 2021- December 2021

*Master of Science – Business Analytics & Information Management (STEM – OPT Eligible)*

- Graduate Teaching Assistant – Database Management Systems
- **#1 Winner** - ECS Hackathon, 2021 - Espoir: Mental Health App
- **Rank # 1** – Kaggle Challenge - Bankruptcy Classification Project

#### Pandit Deendayal Petroleum University, Gujarat, India

May 2012 - June 2016

*Bachelor of Technology - Petroleum Engineering (Major-Upstream)*

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### WORK EXPERIENCE

#### Undisclosed Multinational Lodging Partner, USA.

August 2021 – Present

*Graduate Analytics Consultant*

- Implementation of parallelization on Purdue's Bell Cluster, to execute multiple hyper-tuned time-series models and get the best demand prediction of occupancy for a moving window of 48 hours.

#### 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%.
- 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.

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

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### SKILL SET

**Programming:** R Python, SAS EM, SPSS

**Database management:** MySQL, MongoDB

**Data Visualization:** Tableau, PowerBI

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

**Data Mining:** EDA, Machine Learning, Deep Learning, Google Analytics

**Cloud Computing & parallelization:** AWS, Bell cluster

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### ACCOMPLISHMENTS

**Tableau Certified Desktop Specialist**

**AWS Certified Cloud Practitioner**

**IBM Certified Data Science Professional**