

Amit Pandey

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Summary

12 years of experience developing data driven solutions using advanced statistical & machine learning techniques

Domain experience in Industrial Analytic, Internet of Things (IoT), Finance, Pricing and Demand Forecasting

Hands on experience at data integration, feature engineering, model development, validation, and deployment

Proficient in using Python, R, Deep Learning frameworks(Keras/Tensorflow) and big data technologies

Models: - Regression (Simple/Penalized), Time-Series (Forecasting/Frequency Domain/Causal), Neural Nets, Clustering, Decision Trees, Ensembling (Boosted/Bagged models), Association Rules, Explainability (SHAP/LIME)

Skills: - Python(PySpark), R, Tableau, Databricks(DeltaLake), BitBucket(GIT), Airflow

Job Responsibilities: Data Wrangling, EDA, Feature Engineering, Advanced Analytics & Modeling

Work Experience

a. Sr. Advanced Data Scientist, Honeywell – Hyderabad (2015– Current)

Industrial plant Key Performance Indicator (KPI) deviation event analyzer - Developed data driven solution for learning KPI behavior using Asset Hierarchy (Knowledge Graph), plant historian data to recommend potential contributors for deviation events

Demand Drivers and Price Optimization - Developed data driven automated price recommendation and demand driver analysis system for aircraft parts using historical price, sales, aircraft platform usage and economic indicators.

ERP Data Migration Engine Worked on developing ERP data migration and mapping recommendation engine to enable efficient legacy enterprise data migration

SKU level Demand Forecasting using Deep Learning - Developed deep learning based demand forecasting solution for close to 100K+ SKUs to provide over/under stock inventory optimization recommendations

Deep Learning based Asset Anomaly Detection - Developed new product feature to learn asset behavior and detect anomalous condition using DL

Modeling Worn-To-Limit of Aircraft Brakes - Developed data driven solution to derive main factors leading to degradation of brakes and provide early indication for brake replacements using sensor data collected from Aircraft systems

Dialog Processing Engine(DPEG) for warehouse workflows - Worked on developing DPEG to process the text dialogues generated during conversation between warehouse operators and Honeywell devices to detect and generate operator activities

Energy usage forecasting for Demand Management - Developed solution to enable Utilities to accurately forecast power usage of its client using interval meter reads coming from Smart Meters

b. Data Scientist, Cyient Insights – Hyderabad (2013 – 2015)

Device classification and identification using EMI signals - Developed proof of concept (POC) for data-driven solution to learn the characteristic device features from EMI signals

Anomaly detection for Oil & Gas well operation - Worked on developing early event detection system for prevalent oil well production issues

Validating assigned responsibility for Aircraft Interruption Events - Developed model to automatically validate the responsibility for airline interruption events such as Cancellation/Delay

c. Research Associate, Indian School of Business – Hyderabad (2011-2013)

Firm's Earning Components and Stock Prices - Analyzed how firm's earning components (accrual, cash-flow) impacts stock return using Regression model and data obtained from CMIE-Prowess, BSE, RBI

Media Penetration in India - Created district level database of Media Penetration (TV, Radio, Print, and Internet), Economic, and Crime and Education indicators for Indian context.

Academic

Integrated Post Graduation BTech & MBA (Stream:- IT) from Indian Institute of Information Technology and Management – Gwalior (established by Ministry of Human Resource, Government of India) (CGPA: 8.20/10)