

Sanidhya Chauhan

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EDUCATION

Arizona State University

Master's Degree: MS Computer Science

Tempe, Arizona

Graduation Date: May 2025

WORK EXPERIENCE

EXL

Senior Data Scientist

Gurgaon, India

Apr 2023 - Aug 2023

- Architected pricing optimization strategies using decision trees, neural networks, and regression models; implemented XGBoost, boosting model precision by 12% and streamlining data warehousing performance tracking by 30%.
- Refined model accuracy by reducing SMAPE to 26.8 through strategic clustering, data manipulation techniques, and thorough exploratory data analysis (EDA), including feature importance, covariance matrices, collinearity tests, and VIF scores, leading to more accurate price optimization.
- Automated pricing for a fashion retail client by incorporating analytics and predictive modeling for seasonality, market trends, and product attributes, eliminating manual updates and reducing operational efforts by 40%.

Uber

Data Scientist

Hyderabad, India

Nov 2021 - Mar 2023

- Devised a strategy with the TF-IDF Natural Language Processing(NLP) algorithm to compare restaurant pricing on Uber-Eats and competitors, detecting 45% with discrepancies over 20%.
- Employed NLP algorithms to analyze user feedback, enriching the NPS score by an average of 0.7 points across multiple geographies through strategic insights identification and application.
- Predicted Driver Demand with Time Series Forecasting and streamlined driver allocation efficiency by 15% and increased customer satisfaction by 20% through accurate demand predictions in specific areas and new geographies.

Amazon

Business Intelligence Engineer

Bangalore, India

Sep 2020 - Nov 2021

- Trained and fine-tuned Transformer-based models using PyTorch and TensorFlow for large-scale demand forecasting, improving forecast accuracy by 25% and reducing stock management issues by 30%.
- Launched a distributed data pipeline with Apache Spark, in response to stakeholder demand reducing data processing time by 50% and enabling near real-time analytics for e-commerce operations.
- Innovated and deployed a Generative Adversarial Network (GAN) for generating synthetic training data, increasing data diversity by 30% and improving model performance metrics by 15%.

United Airlines

Data Science Analyst

Gurgaon, India

Jul 2019 - Sep 2020

- Developed a collaborative-based recommendation engine, incorporating modeling techniques, for united.com, contributing to an incremental revenue increase of \$2 million monthly.
- Engineered insights by analyzing customer purchase data with data mining and A/B testing, boosting conversion rates by 15% and retention by 10% and elevated customer experience.
- Implemented a balance of price-sensitive and personalized recommendations, leveraging pattern recognition techniques, resulting in a 12% increase in recommendation take rates.

SKILLS

Languages: Java, Python, Perl, R, C++, C, C#, SQL, JavaScript, React, D3, HTML, CSS, GraphQL

Machine Learning: TensorFlow, Keras, PyTorch, Image Processing, Artificial Intelligence, LightGBM, FastAPI, Data Science, Deep Learning, Reinforcement Learning, Statistical Data Analysis, Stochastic Processes, Computer Vision

Technologies: Amazon Web Services(AWS), Google Cloud, Agile, QuickSight, Git, JIRA, Azure DevOps, Github