DIVYANSH PRADHAN

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EDUCATION

Stony Brook University August 2024 – August 2026
Master of Science in Data Science *Stony Brook, New York*

Nirma University October 2020 – May 2024
Bachelor of Technology in Computer Science and Engineering (GPA: 3.28 / 4.00) *Gujarat, India*

SKILLS

Programming Languages:	Python, R, SQL, Java, C++, Scala, JavaScript
Machine Learning & AI:	TensorFlow, PyTorch, scikit-learn, Algorithms, Deep Learning, Predictive Modeling, Natural Language Processing (NLP)
Data Science & Analysis:	Data Wrangling, EDA, Feature Engineering, Statistical Analysis, Data Mining
Cloud Platforms & Big Data:	AWS, GCP, Azure, Docker, Kubernetes, Apache Spark, Hadoop, Cloud Computing
Tools & Visualization:	Tableau, Power BI, Matplotlib, Seaborn, Kubeflow, Airflow, CI/CD, Git, Jira
Development Methodologies:	Agile Methodologies, SDLC, A/B Testing

EXPERIENCE

Axisray January 2024 – June 2024
Data Analyst Intern *Gujarat, India*

- Spearheaded the deployment of YOLOv8 Garbage Detection System, achieving a 15% increase in detection accuracy and reducing false positives by 18% by implementing advanced feature engineering techniques.
- Conceived automated CI/CD pipelines using Docker and Kubernetes, reducing deployment time from 3 hours to 1.5 hours and ensuring scalability and robust production workflows.
- Crafted interactive Tableau dashboards for monitoring model performance, reducing manual reporting time by 50% and enabling quicker, data-driven insights for decision-making.
- Integrated anomaly detection algorithms into monitoring frameworks, identifying and addressing performance issues in real-time, resulting in a 20% reduction in system downtime.

Shanro Key Chem January 2022 – June 2022
Data Science Intern *Gujarat, India*

- Devised a predictive machine learning model using time-series forecasting techniques, improving inventory demand planning accuracy by 20% and reducing stockouts by 15%.
- Facilitated data ingestion and transformation pipelines using Python and Hadoop, processing over 10 million records daily, leading to a 30% reduction in ETL processing time.
- Architected and deployed RESTful APIs with Django and SQLite, enabling seamless communication between business applications and reducing data retrieval time by 50%.
- Conducted extensive exploratory data analysis (EDA) on sales and inventory data, uncovering key trends that improved forecasting accuracy by 15% and optimized inventory holding costs by 10%.

PROJECTS

RetainAI: Predictive Analytics for Customer Retention | *Python, scikit-learn, AWS, Flask* June 2024 – August 2024

- Orchestrated a predictive model with 88% accuracy to identify at-risk customers, increasing retention by 15%.
- Deployed real-time APIs on AWS to process and analyze 5,000+ user activities, enabling actionable insights for retention strategies.

SentimentX: Real-Time Sentiment Analysis for Media | *TensorFlow, NLTK, Flask, SQL* April 2024 – June 2024

- Engineered a BERT-based sentiment analysis model with 92% accuracy, cutting processing time by 50% for media analytics.
- Synthesized a scalable Flask API for real-time insights, enhancing media team productivity by 30%.

YieldNet: Precision Agriculture Crop Prediction | *Python, TensorFlow, Keras, SQL, GIS* July 2023 – October 2023

- Fabricated a CNN model with 87% accuracy for crop yield prediction, optimizing resource allocation by 15%.
- Streamlined data integrity and compliance with secure SQL pipelines, supporting over 20 analytical applications.

SecuGuard: Cybersecurity Anomaly Detection with Graph Neural Networks | *PyTorch, AWS, GNN* April 2023 – July 2023

- Formulated a GNN-based model with 90% accuracy for anomaly detection, improving detection precision by 30%.
- Automated threat detection pipeline on AWS, cutting response time by 25% and bolstering security protocols.

CERTIFICATIONS

Machine Learning *Stanford University, December 2024*
AWS Certified Machine Learning – Specialty *Amazon Web Services (AWS), December 2024*
Google Cloud Professional Data Engineer *Google Cloud, December 2024*