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My Site

EDUCATION

Thapar Institute of Engineering And Technology

Bachelor of Engineering in Computer Science (AI)

September 2021 - June 2025

Patiala, Punjab

PROJECTS

E-Commerce Product Intelligence System — Python, PyTorch, scikit-learn

[Code](#)

- Developed an end-to-end machine learning pipeline for e-commerce product analysis that processes multi-modal data (images, text, numerical features) to generate insights and predictions with 85% accuracy.
- Implemented computer vision techniques using ResNet50 for automated product image feature extraction, reducing manual tagging efforts by 70% and improving product categorization precision.
- Built a sales forecasting and product ranking system using ensemble models that achieved 12% lower MAE than baseline and demonstrated superior performance with NDCG@10 and AUC metrics for recommendation relevance.

Customer Churn Prediction — Python, scikit-learn

[Code](#)

- A classification model was built using Python (scikit-learn) on a 1,000-row telecom dataset, with 78% accuracy achieved (a 15% improvement over baseline) by handling missing data (10% imputed) and encoding 5 categorical features.
- Hyperparameters were optimized using GridSearchCV with 3-fold cross-validation, resulting in a 25% reduction in false negatives and an improvement in recall to 72%.
- Feature importance was visualized using SHAP values, and the results were exported as interactive HTML reports using Plotly.

Interactive Sales Dashboard for Retail Analytics — Power BI

[Code](#)

- An interactive dashboard analyzing retail sales trends, inventory, and profitability metrics was developed.
- Power BI was connected to a SQL database to enable real-time updates and visualization of over 10 thousand+ data points.
- Actionable insights were provided, leading to a 25% improvement in inventory turnover rates and increased accuracy in sales forecasting.

Experience

ThapaSat (ELC)

Thapar Patiala, Punjab

Summer Intern

June 2023 - July 2023

- Over 50 hours of satellite audio data were collected, capturing various frequencies used in weather transmissions.
- A signal processing algorithm was developed to convert over 100 audio files into images, achieving a 95% success rate in producing clear weather maps.
- Backend Python code was created for detecting cyclones from satellite images, processing 60 images per minute with 90% accuracy in predicting cyclonic paths up to 36 hours in advance.

SKILLS

Programming Languages: Python, C++, SQL, HTML, CSS

Libraries and Tools: Scikit-learn, Pandas, NumPy, PyTorch, Power BI, AWS (S3, EC2), MongoDB

Concepts: OOPs, Machine Learning, Computer Vision, Data Analysis, ETL Pipelines, Basic Cloud Deployment

Problem-Solving: Debugging, Optimizing Performance, Algorithm Design

Soft Skills: Collaboration, Communication, Analytical Thinking

CERTIFICATIONS

AWS Academy Cloud Foundations

June 2024

AWS Academy Graduate

[View Certificate](#)

Create ML Models with BigQuery ML

2024

Google Cloud Skill Badge

[View Certificate](#)

Prompt Design in Vertex AI

2024

Google Cloud Skill Badge

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