Abhishek Patidar

MSC IN Data Science (IIIT Lucknow)
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Profile

I'm a dedicated Data Science student with a solid foundation in Mathematics, Analytics, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, and Statistical Modeling. Currently pursuing a Data Science degree, I'm eager to apply my skills in real-world scenarios, contribute to innovative solutions, and gain hands-on experience in the field.

Technical Skills

Languages: Python, SQL, LaTeX
Data Science / Machine Learning / Deep Learning / Computer Vision / NLP/Basic Generative AI: Supervised Learning Algorithms, Unsupervised Learning Algorithms EDA, Feature Engineering, Feature Selection and Extraction, Model Building, Deep Learning,Object detection(YOLOv5).
LangChain: Framework for building language model applications
LlamaIndex: Tool for indexing and querying documents with LLMs
Mathematics for ML & DL: Linear Algebra, Statistics, Calculus, Probability
Python Packages and Frameworks: Scikit-Learn, NumPy, Pandas, Seaborn, Matplotlib, ggplot, TensorFlow, Keras, PyTorch
Database: MySQL, MongoDB, Docker, Pinecone, Cromodb
Big Data Technology: Hadoop, Spark, Pig, etc.
Developer Tools: MLOps, Git/Github, VS Code, Jupyter Notebook, Google Colab
Cloud Deployment & Containers: Git, AWS, Flask, MLOps
Non-Technical: Hard Working, Decision Making, Time Management, Team Collaboration, Effective Communication in Technical Terms

Projects

AI-Based Gemstone Price Forecasting
Objective: To accurately predict future prices of gemstones using artificial intelligence techniques.
Approach: Cleaned data using sklearn. Conducted EDA with Pandas, Seaborn, and Matplotlib. Trained models: Linear Regression, Lasso, Ridge, ElasticNet, SVR, Decision Tree.
Result: Achieved 91% accuracy with Linear Regression.
GitHub: Project Link
Machine Learning Insights for Cardiovascular Health Defense
Objective: Develop a precise framework for early heart disease detection.
Approach: Gathered diverse health datasets. Conducted EDA with Pandas, Seaborn, and Matplotlib. Used models: Linear Regression, Lasso, RandomForestRegressor, KNN, DecisionTree.
Result: Achieved 90% accuracy with KNN.
GitHub: Project Link
NLP-Concise-Text-Synthesis-Project
Objective: Detect hate speech in textual data using NLP.
Approach: Collected social media data. Pre-processed with tokenization, stemming, lemmatization. Used RNN with LSTM for modeling. Evaluated with accuracy, precision, recall, F1-score.
Outcome: Deployed robust text synthesis system.
GitHub: Project Link

Generative AI

Text Generation using GPT-3
Objective: Develop a system for generating human-like text using GPT-3.
Approach: Utilized OpenAI's GPT-3 API. Pre-processed training data and fine-tuned the model for specific text generation tasks.

Outcome: Achieved high-quality text generation for various applications such as content creation, chatbots, and automated reporting.
GitHub: Project Link

Education

Indian Institute of Information Technology, Lucknow (IIIT Lucknow) 2023–25
Master of Science in Data Science *8.14 CGPA*

Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore (SVVV Indore) 2020–23
Bachelor of Science in Mathematics Hons. *8.46 CGPA*

Certifications

Full Stack Data Science Masters (iNeuron.ai)
July 2023 – July 2024
Certificate Link

Languages

Hindi, English

Achievements

Qualified in the Joint Admission Test for Masters (JAM) in 2023, achieving a competitive score in the national-level examination.

Awarded the Tata Capital Pankh Scholarship during undergraduate studies for the academic years 2020-2023, based on academic merit, interview performance, and other selection criteria.
Certificate Link

Granted the HDFC Bank Parivartan's ECSS Scholarship for post-graduation studies in 2024-2025, recognized for academic excellence, community service, and successful interview performance.