Anuj Patel

Contact: +91-9098343680 | E-Mail: anuj.patel.29dec@gmail.com | LinkedIn

Dynamic and dedicated **Data Science Professional** carrying expertise In **Machine Learning, Deep Learning and Natural Language Processing and Generative AI** while generating ideas for new processes and their implementation

---

A committed professional with experience in:

Data Science | Machine learning | Natural Language Processing | Deep Learning | Data Analysis | Classification/Regression | Clustering | Decision Tree | Random Forest | MYSQL

SCHOLASTICS PORTFOLIO

Prestige Institute of Engineering, Management and Research, RGPV, Indore, MP, India   *CGPA – 7.65/10*
Bachelor of Technology (Computer Science & Engineering)   2021-2025

TECHNICAL SKILLS

- **Programming Languages**   : C, C++, Python
- **Machine Learning**   : Regression (Linear, Logistic), Decision Trees, Random Forest, SVM, K-Means, KNN, XGBoost
- **Natural language Processing**   : NLTK, Spacy, Text Summarization
- **Deep Learning**   : ANN, CNN, RNN, LSTMs
- **Generative AI**   : GANs, Diffusion Models, Hugging Face, LangChain, OpenAI API, Prompt Engineering
- **Data Analysis & Visualization**   : Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn
- **Databases**   : MYSQL
- **Algorithmic Techniques**   : Data Structure
- **Source Controls**   : Gitlab, Github

PROFILE SUMMARY

- **Solid foundation in Machine Learning**, adept at engineering and deploying sophisticated regression and classification models, including Linear/Logistic Regression, Random Forest, and SVM. Proficient in clustering techniques and Natural Language Processing for insightful predictive analytics and strategic decision-making.
- **Deep Learning Practitioner**, skilled in designing and implementing advanced neural network architectures, including Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), and Recurrent Neural Networks (RNN).
- **Natural Language Processing (NLP)**, enthusiast, skilled in Text Summarization, Named Entity Recognition (NER), Sentiment Analysis, and Language Modelling using NLTK, Spacy, Hugging Face Transformers, and BERT**.**
- **Generative AI:** Expertise in GANs, Diffusion Models, and **LLMs**, utilizing Hugging Face, LangChain, **RAGs** (Retrieval-Augmented Generation), Google Vision API, OpenAI API, and fine-tuning models to build AI-powered applications. Skilled in **prompt engineering**, deployment, and optimizing AI workflows for real-world use cases.
- **Comprehensive expertise in SQL**, skilled in designing and executing intricate queries (Joins, Sub queries, CTEs) and administering database operations, encompassing DDL, DML, and DCL processes, to ensure optimal data management.
- **Expert in Python Development**, proficient in architecting dynamic and scalable web applications using robust frameworks like Flask. Skilled in integrating cutting-edge front-end technologies, including HTML and CSS to craft seamless and user-centric digital experiences.

KEY PROJECTS

AUTOMATED BILL EXTRACTION SYSTEM
- **Key Skills: OCR, Google Vision API, Streamlit, LangChain, LLMs, Python**
- Developed a Streamlit-based application that processes scanned expense bills and extracts key details (date, amount, vendor).
- Integrated **Google OCR API** to improve text extraction accuracy from scanned images.
- Leveraged **LLM-powered** entity recognition (via Hugging Face API) to categorize extracted data with **85% accuracy.**

SENTIMENT ANALYSIS
- **Key Skills: Python, libraries (Scikit-learn, Matplotlib, Pandas, NLTK),Logistic Regression**
- Applied sentiment analysis models (Logistic Regression, Naive Bayes, SVM) to classify feedback into positive, negative, or neutral
- Pre-processed and analyzed customer feedback data using Natural Language Processing (NLP) techniques, including tokenization, stop word removal, and lemmatization.

OPTIMAL PRICE PREDICTION SYSTEM
- **Key Skills: Python , Regression algorithms, Scikit-learn**
- Designed a user-input-based system for predicting optimal prices using a regression model with **92% accuracy**.
- Improved prediction efficiency by **reducing computational time by 30%** after feature selection and model tuning.
- Developed a machine learning-powered price prediction model using Gradient Boosting, and Support Vector Machines (SVM) to estimate optimal prices.

CUSTOMER RETENTION ANALYSIS

- **Key Skills: Python, Machine Learning (Random Forest, XGBoost), Streamlit**
- Integrated NLP models to analyze **100,000+ customer feedback records**.
- Achieved **85% accuracy**, reducing customer churn by **15%**, improving retention strategies for businesses.
- Built a machine learning-driven churn prediction model using **Random Forest, XGBoost, and Logistic Regression**, achieving an **F1-score of 0.87**.

REAL-WORLD EXPERIENCE

Avnipride Technology, Madhya Pradesh, India *Jun 2024 – Jul 2024*

- **Python Intern**
- **Key Skills: Python, SQL, API's**
- Collaborated with the team to troubleshoot and resolve issues, ensuring high-quality performance and code reliability.
- Contributed to testing and improving system performance through the use of Python libraries and frameworks.

Renuka Softec, Madhya Pradesh, India *Apr 2024 – May 2024*

- **Python Intern**
- **Key Skills: Python, MySQL, Database**
- Assisted in transforming a press management system from .NET to Python, enhancing system performance and scalability.
- Developed **efficient** backend functionalities in Python, **reducing query execution time by 30%**, ensuring smooth data integration.

Confederation of Indian Industry, Advertising / Events *Jan 2023 – Jan 2023*

- **Team Coordinator**
- **Key Skills: Public Speaking, Management, Team Coordination**
- Coordinated a team for the G20 Summit, facilitating smooth interactions with international delegates and key stakeholders.
- Led a team of **10+ members** at the G20 Summit, facilitating **seamless interactions** between international delegates and key stakeholders.

PUBLICATION

A Study on Potential of AI in Healthcare Sector *Feb 2024*

- **Metszet Journal** | Mentor: Dr. Piyush Choudhary | No. of Authors: 2
  Key Skills: Artificial Intelligence, Healthcare, Uses of AI in Healthcare
- Conducted in-depth analysis of various AI technologies and their impact on the healthcare industry.
- Publication Link: https://metszetjournal.com/volume-9-issue-1/

CERTIFICATIONS

- **Tata Data Visualization:** Empowering Business with Effective Insights *2024*
  Key Skills: Data Visualization Data Analysis

WEB REFERENCES

- **Github**   : https://github.com/Anujpatel04
- **LinkedIn** **:** https://www.linkedin.com/in/anujpatel004/

POSITION OF RESPONSIBILITY

- Led various placement drives at college level as Placement Cell Coordinator *2022-2024*
- Coordinated various cultural events in college fest *2021-2024*
- Coordinator, Played a key role in organizing and managing the G20 Summit Vendor Development Program, facilitating vendor engagement *2022*

PERSONAL DETAILS

Date of Birth: 29th Dec 2005 **| Nationality:** Indian **| Present Location:** Indore, Madhya Pradesh