Indra Puri Sector-C, Bhopal,
M.P., India, 462022

AMIT SINGH PARIHAR

(+91) 9009106799
amitsinghp1007@gmail.com
Github Link; Personal Portfolio; LinkedIn

TECHNICAL STACK

- **DS/ML/AI** – Python, Statistics, Machine Learning, Deep Learning, NLP, DS lifecycle, Transfer Learning.
- **ML Framework/modules** – Sklearn, Tensorflow, keras, Numpy, Pandas, Transformers etc.
- **Programming and DB Languages** – Python, MySql, Vector Databases.
- **Data Visualization** - Power BI, Matplotlib, Seaborn.
- **LLM tools and frameworks** - Langchain, Openai apis, Open Source LLMs.
- **Soft Skills** - Communication, Teamwork, Negotiation Skills, Adaptability, Leadership.

Projects

PDF QUERY CHATBOT – Personal Project   **March 2024**
- Generative AI for PDF Search: Built a Langchain-based chatbot that leverages an OpenAI LLM to understand user queries and retrieve information from PDFs.
- Used NLP techniques (text extraction, chunking) for efficient processing.
- Semantic Search with Cassandra: Employed vector embeddings for efficient search and retrieval of relevant answers from the in dexed PDFs, leveraging Cassandra for scalable storage.

MCQ Generator – Personal Project   **March2024**
- Automated MCQ Generator: Built an end-to-end solution (Langchain AI) to automatically generate MCQs from uploaded content (PDF/text), eliminating manual work.
- Streamlit UI: Build A User-friendly interface allows effortless content upload, MCQ configuration (count, subject, tone), and seamless generation.
- Smart Resource Management: Tracks token usage during generation for cost-efficient utilization of Openai APIs.

PIMA INDIAN DIABETES PREDICTION– College Mini Project   **Dec 2023**
- Objective: Implemented predictive modeling to identify diabetes risk in Pima Indian females aged 21 and aboveusingpertinent medical data.
- Key Insights: Uncovered significant factors influencing diabetes risk, including glucose levels, pregnancy history,skin thickness, insulin levels, and body mass index (BMI).
- Model Performance: Achieved notable results by employing a Decision Tree Classifier, which demonstrated superior performance with an accuracy rate of 77%, contributing to the effective identification of diabetes Risk.

DEEP LEARNING ANN Model – Personal Project - Customer Churn Prediction   **September 2023**
- Objective: Successfully crafted an Artificial Neural Network (ANN) model dedicated to forecasting customer churn within a corporate context.
- Approach: Leveraged extensive historical customer data encompassing behavioral patterns, demographic information, and interaction records.
- Outcomes: Demonstrated proficiency by attaining model stability, reflected in a training loss of 0.3189 and an impressive accuracy rate of 0.8629.

CNN IMAGE CLASSIFICATION - Personal Project - Dog vs. Cat   **October 2023**
- Objective: Engineered a cutting-edge Convolutional Neural Network (CNN) model to achieve high-precision image classification, specifically distinguishing between dogs and cats.
- Achievements: Delivered exceptional results, highlighted by an impressively low training loss of 0.0786 and an outstanding training accuracy of 96.85%. These outcomes underscore the model's remarkable proficiency in accurately categorizing dog and cat images.

EDUCATION

LNCT University(Bhopal)   **September 2021 – Present**
Bachelor of Computer Applications (BCA)
With Specialization in AI/DA, CGPA - 8.15

BONANAZA CONVENT HIGHER SECONDARY SCHOOL (Satna)   **April 2019 -July 2020**
PCM With a Percentage – 63%

EXPERIENCE

Samatrix Consulting Private Limited- intern (Data Analysis Using Python)   **Jul 2023 - Jul 2023 (1 month)**

FLIGHT FARE PREDICTION – Internship Project

Key Achievements**:**

- Effectively managed a complex project featuring categorical independent features.
- Utilized advanced data preprocessing techniques, including Label Encoder and One-Hot Encoding, to transform categorical data into numerical values.
- Demonstrated strong proficiency in manual data conversion, showcasing the ability to handle these tasks independently without the reliance on external libraries.

LICENSES & CERTIFICATIONS

- Data Analytics and Visualization Virtual Experience – Accenture
- British Airways Data Science - British Airways
- Certificate of Accomplishment - Samatrix Consulting Private Limited (Data Analysis using Python)
- Certificate of Accomplishment - Samatrix Consulting Private Limited (Statistical Data Analysis using Python)
- Certificate of Accomplishment - Samatrix Consulting Private Limited (Foundation to AI Data Science& Data Analysis)