MOHAMAD SABIQ

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TECHNICAL SKILLS

Programming & Databases: Python (Pandas, NumPy, Matplotlib, Seaborn), SQL, MySQL
Data Engineering & Cloud: Data Mining, Data Processing, Apache Hadoop, Apache Spark, Tableau, PyTorch, AWS
Machine Learning & MLOps: Scikit-learn, XGBoost, LightGBM, Supervised, Unsupervised Learning, MLflow, DVC, DagsHub
Web Technologies: BeautifulSoup, Selenium
Generative AI & LLMs: Frameworks: OpenAI GPT, Hugging Face, LangChain, Stable Diffusion
Deployment & CI/CD: Streamlit, Docker, Git, CI/CD Pipelines, Apache Airflow

EXPERIENCE

LOGIC PLUM | Data Scientist

Kerala, India | Aug2023 - Present

- Build, train, and optimize **Machine learning models** by employing various algorithms, while performing extensive data cleaning and feature extraction to enhance model accuracy and reliability.
- Led a **computer vision** project, leveraging **YOLO, OpenCV, Swin Transformers V2, K-Means Clustering, and Segment Anything Model** to develop an object detection model for identifying key image features.
- Applied **PyTorch** for training and fine-tuning **deep learning models** across multiple projects, including **image classification**
- Developed **LLM** pipelines with **fine-tuned prompts** and post-processing techniques to maintain **output accuracy**, **consistency**, and alignment with domain-specific constraints.
- Fetched and processed large datasets from **Databricks** using **complex SQL queries**.

PROJECTS

Physician Hiring Application

- Developed a data-driven application to optimize physician hiring, enhancing **candidate relevance** and **reducing churn risk** by implementing supervised machine learning algorithms and analyzing career history and professional connections.
- Managed **large-scale data processing**, including feature engineering and mapping connections across 1.1 million physician profiles.
- Reduced physician hiring time by an **estimated 30%**, optimizing resource allocation and staffing efficiency, with over **70%** of the connections established **matching real-world relationships.**
- Collaborated closely with backend engineers and project managers, facilitating project development and stakeholder **knowledge transfer**.

Aesthetics of Properties

- Developed a **data-driven model** to assess **property aesthetics** within neighborhoods, generating **aesthetic, suitability, and comprehensive scores** based on **architectural style, color, material,** and **environmental factors**.
- Implemented **YOLO v8** for architectural style classification and house segmentation, **K-means clustering** for dominant color detection, and **Swin Transformer V2** for material identification.
- **Leveraged LLM** to generate detailed insights, explaining score variations and providing recommendations for enhancing property aesthetics and neighborhood cohesion.
- Enabled comparative analysis of 20+ neighborhood properties per evaluation, improving the design coherence of proposed property developments.
- Delivered **actionable insights** for **real estate stakeholders**, supporting **data-driven decision-making** and promoting **visually harmonious property development**.

ACHIEVEMENTS & AWARDS

- **1st Place – Innovation Hackathon, Logic Plum (2024):** Developed an AI-powered **property aesthetics evaluation model**, utilizing **YOLO, Swin Transformers V2, and LLMs** to analyze architectural styles, colors, and materials, providing actionable real estate insights.

EDUCATION

- **B.Tech, Electronics and Communication Engineering** — Kerala, India | Aug2018 – Aug2022
  MES College of Engineering, Kuttippuram, Kerala, India
- **Internship, Big Data and Data Science** — Kerala, India | Aug2022 – Aug2023
  Luminar Technolab, Kochi, Kerala, India