YASH MESHRAM

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SUMMARY

AI/ML developer with hands-on experience building and deploying intelligent applications, including NLP pipelines, vector search, and end-to-end machine learning solutions. Skilled in integrating advanced tools like LangChain and ChromaDB to deliver impactful, business-driven results across diverse domains.

PROJECTS

Cold Email Generator
- Developed an AI-powered app for personalized cold email generation using Llama 3 8B Instant via Groq API.
- Automated job posting parsing and project matching with NLP pipelines and vector search (ChromaDB).
- Built a Streamlit UI and integrated LangChain for advanced language modeling and relevance scoring.

Bank Direct Marketing: Term Deposit Subscription Prediction
- Engineered a machine learning pipeline to predict term deposit subscriptions from complex data.
- Tackled class imbalance with advanced resampling and robust feature encoding.
- Achieved a cross-validated F1 score of 0.454 using CatBoostClassifier with hyperparameter tuning.

Insurance Premium Prediction
- Built an end-to-end regression solution for insurance premium prediction using LightGBM.
- Automated data preprocessing, feature engineering, and model evaluation for improved accuracy.
- Visualized feature importance and achieved a mean CV RMSLE of 1.0524.

SKILLS

- **Programming:** Python, SQL, C#
- **Visualization:** Tableau, Microsoft Power BI, Excel Charts, Jupyter Notebook
- **Frameworks/Libraries:** scikit-learn, TensorFlow, LightGBM, CatBoost, Pandas, NumPy, Matplotlib, etc.
- **Worked on:** Data Science, Data Analysis, Machine Learning, Computer Vision, Deep Learning, Angular, .NET.

EXPERIENCE

HCLTech - Technical Lead   **Oct 2022 - Present**
- Working with projects in the service department, providing support for multiple applications.
- Proficiently work with .NET, SQL, and Excel to enhance application performance.
- Produce and deliver comprehensive analysis reports of the application to inform strategic decision-making for the executive team, utilizing advanced data analysis techniques and ensuring clear communication of key insights.

CERTIFICATIONS

- Supervised Machine Learning
- Fundamentals of Deep Learning
- Fundamentals of Visualization with Tableau
- Advanced Learning Algorithms
- Intermediate SQL Queries
- Power BI: Data Analysis

EDUCATION

Indian Institute of Technology Gandhinagar   **2018 - 2022**
Bachelor of Technology, Mechanical Engineering