**YASH MESHRAM** Email**:** [**yashacmeshram@gmail.com**](mailto:yashacmeshram@gmail.com)

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**SUMMARY**

AI/ML developer with hands-on experience building real-world machine learning, deep learning, and generative AI solutions. Strong foundation in statistical analysis, model deployment, NLP, and LLM integration. Adept at solving complex business problems using data-driven approaches. Looking to transition into AI/ML Engineering or Data Science roles with a focus on impactful and scalable AI solutions.

**PROJECTS**

[**AI powered PDF Question-Answering System using RAG Architecture**](https://github.com/yash-meshram/rag-pdf-qa)

* Built a RAG-based PDF QA system using Gemma 2 LLM and LangChain for intelligent context-aware responses.
* Employed LangChain for chunking documents and managing query chains, and InMemoryVectorStore for efficient semantic search.
* Enabled context-aware Q&A with document-specific responses using vector embeddings and prompt templates.
* Developed an interactive Streamlit UI allowing drag-and-drop PDF input and real-time chat interface.

[**Cold Email Generator**](https://github.com/yash-meshram/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.

[**Insurance Premium Prediction**](https://github.com/yash-meshram/Insurance-Premium)

* 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.

[**Bank Direct Marketing: Term Deposit Subscription Prediction**](https://github.com/yash-meshram/Bank-Direct-Marketing)

* Analyzed customer response data from marketing campaigns to improve targeting and retention strategies.
* Engineered an ML pipeline using CatBoostClassifier to predict term deposit subscriptions for a bank.
* Handled class imbalance and applied feature encoding, achieving a cross-validated F1 score of 0.454.

**SKILLS**

* **Programming:** Python, SQL, C#
* **Frameworks/Libraries:** LangChain, Huggingface Transformers, Streamlit, TensorFlow, Scikit-learn, CatBoost, ChromaDB (Vector Database), Keras, Matplotlib, Seaborn, Pandas, NumPy, etc.
* **Worked on:** Retrieval-Augmented Generation(RAG), Data Science, Deep LearningMachine Learning, etc.

**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](https://www.coursera.org/account/accomplishments/certificate/W4F4EO8GV7Y1) * [Fundamentals of Deep Learning](https://courses.nvidia.com/certificates/fc27e6170a754668ad34508e6a457711) * [Fundamentals of Visualization with Tableau](https://www.coursera.org/account/accomplishments/certificate/JQGBG33GHVLC) | * Advanced Learning Algorithms * [Intermediate SQL Queries](https://www.datacamp.com/completed/statement-of-accomplishment/course/264473edf8331ff511d6c7221b4f52b87b0a9994) * [Power BI: Data Analysis](https://codebasics.io/certificate/CB-49-171739) |
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**EDUCATION**

**Indian Institute of Technology, Gandhinagar**  **2018 - 2022**

Bachelor of Technology, Mechanical Engineering