

# Hritik Sharma

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## EDUCATION

- Dr. A. P. J. Abdul Kalam Technical University, Lucknow** Ghaziabad, Uttar Pradesh  
*B.Tech in Computer Science; CGPA: 8.30 (link to result)* July 2019 - May 2023  
*Courses: Data Structures and Algorithms, Analysis Of Algorithms, Artificial Intelligence, Machine Learning.*

## SKILLS SUMMARY

- Languages:** Python, C, C++, C, SQL, JavaScript, Dart, Bash
- Frameworks & Libraries:** TensorFlow, PyTorch, Keras, scikit-learn, Flask, Django, Flutter, LangChain, ML-Agents
- Expertise:** NLP, Machine Learning, Deep Learning, Data Science, Web & Android Development, Web Scraping
- Tools:** Jupyter, Google Colab, Power BI, VS Code, Git, Docker, MySQL, MongoDB, OpenStack, AWS, Google Cloud, OpenAI APIs
- Courses:** DSA, DBMS, Compiler Design, Web Design, ML Techniques, Big Data, Software Project Management

## EXPERIENCE

- MAQ Software** Noida, India  
*Data Scientist* July 2023 - Current
  - Engineered a **central orchestrator AI agent** to dynamically manage, coordinate, and invoke specialized agents based on the context and user intent.
  - Designed scalable data pipelines using **Spark, Delta Lake, and Databricks**, reducing data processing **time by 40%** and enabling real-time survey insights extraction..
  - Optimized forecasting models through **feature engineering, hyperparameter tuning, and cross-validation**, leading to a **10-15% reduction in forecasting errors (MAE, RMSE)**.
  - Created ETL pipelines on 30M+ addresses, training the model, and achieving significant accuracy increase compared to **Named Entity Recognition and Word2Vec + ML**.
  - Reengineered **time series forecasting frameworks** for multiple retailers, increasing scalability and adaptability, leading to a **25% reduction in forecasting model maintenance effort**.
  - Wrote a white paper on assessing robustness and performance of LLMs like **Mistral, LLaMA using Langchain for metrics like ROUGE, k-accuracy, etc.**
  - Orchestrated AI agent integration using **LangChain, GPT APIs, and custom API-wrapped functions**, enabling phone call interactions and **boosting sales engagement and CRM task automation by 25%**
- Oxygen 2 Innovation** Noida, India  
*Machine Learning Engineer* March 2022 - July 2023
  - Developed **AI algorithms for autonomous kamikaze drones**, improving target recognition **accuracy by 35%** and enhancing mission success rates.
  - Enhanced AI-based Ground Control Stations for **HALE drones**, increasing operational efficiency and reducing mission planning **time by 40%**.
  - Designed a **real-time AI-based stress detection system**, leveraging sensor fusion to **achieve 90%+ accuracy**, contributing to improved mental health monitoring.
  - Built a fighter airplane simulator creating a high-fidelity training environment that improved pilot training using **Python, C++, and ML-Agents**.

## PROJECTS

- Voice Transcription Agent :**
  - Developed a **voice AI agent** for real-time voice-to-text transcription application using **OpenAI Whisper** and **Google Gemini**, orchestrated via an **agentic pipeline**.
  - Built a scalable, cross-platform solution with **Flask backend** and a responsive web interface, featuring **real-time processing, logging, and recovery agents**.

## CERTIFICATIONS

- Microsoft Certified: Fabric Analytics Engineer Associate. Show credential
- Analyze Data to Answer Questions by Google. Show credential
- Career Essentials in Generative AI by Microsoft and LinkedIn. Show credential
- Career Essentials in GitHub Professional Certificate. Show credential
- Docker Foundations Professional Certificate. Show credential