

CHIRAG ARUNKUMAR VYAS

AI/ML Engineer | Industrial Automation Specialist | Computer Vision | NLP | RAG



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Career Objective

AI/ML engineer in transition, focused on developing intelligent applications. Building practical experience in machine learning, NLP, and AI-driven systems. Interested in applying AI techniques to solve real-world challenges.



Education and Certification:

- Master of Data Science (Global)
Deakin University, Australia (Delivered in partnership with Great Learning) | 2026
- Postgraduate Program in Artificial intelligence & machine learning
University of Texas at Austin [Offered through Great Learning] | 2024
- GEN AI for Natural Language Processing Program [Great Learning] | 2024
- IBM Full stack Software Developer [Professional Certificate Coursera] | 2025
- Advance program in Electric Vehicle (EV) technology
IIT, Delhi. [Offered through upgrade] | 2023
- Embedded system programming / introduction [skill-Lync] | 2022
- B.E. Electronics. [university of Mumbai]-
Padma Bhushan Vasant Dada Patil Pratishtha College of Engineering | 2009
- Diploma [Industrial Electronics]-
Swami Vivekanand education society polytechnic. | 2006



Skills:

- **Core:** Python, SQL, Machine Learning, Data Analysis
- **Supporting:** R Programming, Data Visualization (Pandas, NumPy, Matplotlib, Seaborn)
- **AI/ML Tools:** Scikit-learn, XGBoost, TensorFlow (basic), PyTorch(basic), OpenCV, NLP (NLTK, Transformers)
- **Web Development (Familiarity) :** HTML, CSS, JavaScript, React, Node.js, Django
- **Tools & Platforms:** Jupyter Notebook, Google Colab, VS Code, GitHub
- **Databases:** MySQL, MongoDB
- **Additional Tools :** Power BI, Tableau, Arduino IDE, STM32Cube IDE



Project Experience During Learning:



AIML:

AI/ML Projects

- **Customer Conversion Prediction:** Built a machine learning model to identify potential customers for targeted marketing in the banking domain, improving decision-making using historical data.
- **Churn Prediction Model:** Developed a classification model to identify at-risk telecom customers, enabling proactive retention strategies.
- **Yield Prediction Classifier:** Created predictive models to analyze semiconductor manufacturing processes and improve yield estimation accuracy.
- **Face Detection System:** Developed a computer vision application for real-time face detection using image processing techniques.
- **Advanced Ticket Categorization:** Built an NLP-based system to classify and prioritize support tickets using sentiment analysis.
- **Team Performance Analysis:** Analyzed sports team performance using statistical methods to derive insights for strategic decision-making.
- **K-Means Clustering:** Implemented unsupervised learning for customer/vehicle segmentation using clustering techniques.
- **Database Analysis:** Extracted and analyzed structured data to generate insights supporting business decision-making.



Generative AI for NLP:

- **Financial Complaint Classification & Summarization:** Developed NLP applications to classify financial product complaints and generate concise summaries, along with customer review sentiment analysis using transformer-based models (BERT).
- **AI – Powered Mobile Recommender Chatbot Using Azure:** Developed a Telegram-based mobile recommendation system using a machine learning model deployed on Microsoft Azure. Built a modular backend that processes user inputs, extracts features, predicts suitable mobile models, and ranks recommendations. Integrated Azure services (App Service/Functions + Azure ML + Database) to deliver real-time, accurate mobile suggestions to users.



Early Experience:

Automation Specialist – Water Systems

(Self-Employed / Proprietorship) | 12+ Years

- Led operations and execution of water systems projects, with 12+ years of hands-on experience in **automation of electrical water pumps (submersible and centrifugal)**
- Delivered end-to-end solutions including **hydropneumatics systems, water filtration, and rainwater harvesting**
- Designed and implemented pump automation and control systems to improve efficiency and reliability
- Managed client coordination, vendor handling, and on-site execution across multiple projects
- Contributed to projects executed for organizations including **Reliance Infrastructure, Hindustan Petroleum Corporation Limited (HPCL), and The Leela Mumbai** (under proprietorship)
- Currently transitioning into AI/ML, focusing on applying data-driven and intelligent automation approaches.