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Harish Mohan

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Analytical and creative Data Scientist with 3+ years of experience delivering AI-driven solutions across enterprise domains. Specialising in NLP, GenAI workflows, and unstructured data extraction using Python, SQL, and spaCy. Proven ability to build and scale internal-facing ML tools and dashboards that optimise decision-making. Adept at working cross-functionally to enhance HR operations, forecast workforce metrics, and design actionable insights for leadership.

Skills

Programming Languages Python, SQL
ML & Deep Learning: Scikit-learn, XGBoost, PyTorch, Keras; model training, evaluation, optimization
LLMs & NLP: ChatGPT, GPT-4, Ollama, LangChain, LangGraph, RAG, Prompt Engineering, spaCy, TF-IDF, POS tagging, sentence segmentation, text clustering, embedding-based search
Cloud & MLOps: GCP, GitHub Actions, Postman, REST APIs, OAuth2, JWT
Visualization: Streamlit, Tableau, Power BI, Matplotlib
Other: SDK Integration, API Design, Client Solutioning, Agile, FastAPI

Work Experience

Solution Architect **Aug 2022 — Aug 2023**
Moxo *Bangalore, India*

- Partnered with global banking clients (Emirates NBD, Raiffeisen Bank) to implement Moxo SDK and design custom integration workflows.
- Designed and implemented tailored client workflows using REST APIs and SDKs, aligning integration strategies with business objectives across banking and procurement use cases.
- Collaborated closely with cross-functional teams to embed secure, scalable solutions into client platforms including compliance features and document-based audit trails.
- Led technical discovery sessions and managed production-level support across four geographies, ensuring smooth on-boarding and post-implementation issue resolution.
- Delivered documentation, training, and testing artifacts following agile SDLC processes; contributed to technical design discussions and troubleshooting across modules.

Product Engineer **Aug 2020 — Jul 2022**
IKU *Bangalore, India*

- Led the full lifecycle design and development of a mobile platform promoting sustainable behaviors, integrating real-time feedback and tracking systems.
- Translated abstract user needs into wireframes, APIs, and backend-supported workflows, coordinating closely with developers and product managers.
- Drove testing, deployment, and stakeholder sign-off through clear documentation and regular sprint reviews.

Education

Master's in Data Science, *University of Nottingham* Oct 2023 - Dec 2024
Postgraduate Diploma in Data Science, *Great Lakes of Management* Jun 2021 - Apr 2022
Bachelor's of Electronics and Communication, *Dayananda Sagar College of Engineering* Aug 2017 - Aug 2021

Academic Projects

Resume-JD Match Scoring Tool – AI-powered Internal Talent Fit Evaluator **June 2025**

- Built a GUI-based AI tool to assess candidate-job fit using NLP and TF-IDF-based cosine similarity scoring.
- Enabled real-time scoring and dynamic feedback using a scalable TF-IDF pipeline.
- Provided match feedback with recommendations to improve alignment, simulating an internal talent assessment system.
- Designed with internal HR use in mind: intuitive UI, seamless upload, and actionable insight generation. .

Precision Data Extraction with AI **July 2024 — Sep 2024**

- Developed a GenAI-inspired Python-based tool to automate structured data extraction from unstructured PDFs, integrating OCR (Tesseract), spaCy NLP, and clustering algorithms.
- Engineered context-aware sentence segmentation and POS tagging using spaCy, supported by vectorization via TF-IDF and cosine similarity for validation.
- Processed diverse document layouts (text/image-based and multi-column) at scale, optimizing performance to handle 200K+ words in <15 seconds, with 98% accuracy.
- Demonstrated practical utility in finance, legal, and academic sectors by streamlining data extraction from unstructured PDFS into actionable datasets, as detailed in MSc Data Science dissertation.