RAVICHANDRAN MOHAN

Senior Data scientist (AI/ML)

PROFESSIONAL SUMMARY

Experienced Data Scientist specialized in AI/ML/Advanced analytics with 5+ years of hands-on expertise in developing production-ready machine learning solutions and AI-driven applications. Proven track record in implementing end-to-end ML pipelines, natural language processing, and integrating AI solutions with enterprise systems. Strong background in Python programming, statistical analysis, and deploying scalable AI applications that drive business value. Strong emphasis on team collaboration and delivering impactful results.

WORK HISTORY

Senior Data Scientist, 06/2023 to Current
ELSEVIER - Chennai

- RAG-Based AI Solutions: Provided data science support for enterprise RAG chatbot development, designing and implementing performance monitoring frameworks to track key metrics including retrieval accuracy, response quality, and user engagement across production environments
- Custom AI Application Development: Built in-house customer interaction analytics tools leveraging Azure OpenAI LLM API integrations, processing **5,000**+ multi-channel interactions (chat, phone, email) with advanced NLP for sentiment analysis and automated issue categorization
- AI Strategy & Consultation: Led AI solution consultation across multiple business teams, standardizing AI workflows and establishing best practices for enterprise-wide AI adoption, directly contributing to organizational AI transformation
- AI Education & Culture Development: Designed and conducted comprehensive AI workshops across operations teams, fostering AI-first culture and enabling cross-functional teams to identify and implement AI opportunities in their respective domains
- Predictive Modeling at Scale: Developed and deployed automated forecasting applications using Python and ML algorithms, accurately predicting weekly sales for **3,500+** products with **95%**+ accuracy, directly improving inventory planning and business decision-making
- Enterprise AI Integration: Designed ML-powered query volume prediction models integrated with existing customer support systems, enabling data-driven workforce management and reducing resource allocation inefficiencies by **60%**

Business Intelligence Analyst, 01/2020 to 05/2023
ELSEVIER - Chennai

- Process Automation & AI: Developed and deployed automated

CONTACT

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SKILLS

AI/ML & Programming:

- Python Programming: Advanced proficiency with AI frameworks and libraries
- Machine Learning & Deep Learning: Model training, fine-tuning, and optimization
- Natural Language Processing: Text generation, sentiment analysis, entity recognition
- Generative AI & LLMs: Proficient with GPT-style models, Azure OpenAI API integrations
- RAG Pipeline Support: Performance monitoring, metrics tracking, and optimization for retrieval-augmented generation systems
- Statistical Analysis & Predictive Modeling: Advanced analytics and forecasting

Data & Cloud Technologies:

- Databases & Query Languages: SQL, data extraction and analysis
- Cloud Platforms: Azure, Databricks for scalable ML solutions
- Workflow Automation: KNIME, Python-based pipeline development

ML-driven workflows for content categorization and metadata processing, reducing manual processing time by 90% and saving **30+** hours weekly
- Data Pipeline Architecture: Built end-to-end data extraction and processing pipelines integrated with enterprise databases, streamlining business operations and improving data accessibility
- Business Intelligence Solutions: Created interactive dashboards and analytics tools, enabling data-driven decision-making for cost optimization and performance monitoring
- Cross-functional Collaboration: Worked closely with technical and business teams to identify AI opportunities and implement scalable solutions

Data Specialist/Technical Assessor, 10/2011 to 01/2020
ELSEVIER - Chennai

- Data Management Leadership: Led APAC data collection and assessment processes, managing complex datasets and ensuring data quality for business-critical operations
- Project Management: Coordinated cross-functional projects, streamlining data workflows and implementing process improvements that enhanced operational efficiency

- Data Visualization: Tableau, interactive dashboard development

Business Intelligence & Integration:

- API Integration: Experience with enterprise system integrations
- Process Automation: Workflow optimization and efficiency improvements
- Performance Monitoring: System optimization and continuous improvement

WEBSITES, PORTFOLIOS, PROFILES

- linkedin.com/in/ravi-mohan87

EDUCATION

Master of Science, **Bioinformatics, 01/2008 to 01/2010**
University of Madras - Chennai, India

CERTIFICATIONS

Applied Data Science with Python - IBM (2023-12)

Google Data Analytics Certificate (2022-10)

Google Project Management Professional Certificate (2024-10)

KEY ACHIEVEMENTS

- RAG-Based AI Solutions: Led data science support for enterprise RAG chatbot development, achieving measurable improvements in retrieval accuracy and user engagement through comprehensive performance monitoring and optimization
- Azure OpenAI Integration: Successfully built and deployed custom AI solutions using Azure OpenAI LLM APIs, reducing manual analysis time by 80%
- AI Strategy Leadership: Provided AI consultation across multiple business teams, standardizing workflows and conducting organization-wide AI workshops, directly contributing to enterprise AI adoption and culture transformation
- Scalable ML Solutions: Successfully deployed predictive models handling 3,500+ products with 95% accuracy, demonstrating ability to build production-ready AI applications

- Process Optimization: Automated critical business processes using AI/ML, achieving 90% reduction in manual effort and significantly improving operational efficiency
- Enterprise Integration: Proven experience integrating AI solutions with existing enterprise systems and databases, ensuring seamless adoption and maximum business value

PROFESSIONAL INTERESTS

AI Innovation & Leadership: Continuously advancing expertise in cutting-edge AI technologies, generative AI, and cloud-based ML platforms. Focused on developing strategic thinking and cross-functional leadership skills to drive data-driven business transformation and bridge the gap between AI capabilities and organizational objectives.