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Sumanth Manjunath

Data Scientist with 4+ years of experience and a Master's degree in Data Science and hands-on experience in machine learning model development, deployment, and NLP. Skilled in Python, statistical analysis, and operational research, with a strong foundation in extracting insights from large datasets through semantic analysis. Passionate about using data analytics to solve complex business challenges. Seeking to contribute to innovation in remote monitoring, diagnostics, process optimization, and asset management through data-driven, collaborative solutions

WORK EXPERIENCE

Ocado Group Data Scientist	Hatfield, United Kingdom July 2023 – June 2024
<ul style="list-style-type: none">Transformed supply chain operations by integrating machine learning and AI solutions into inventory planning, transportation, and warehousing processes, driving data-informed decision-makingLeveraged Python and SQL for data preprocessing, feature engineering, and exploratory analysis to prepare high-quality datasets for model training and evaluationEnhanced the performance of existing ML models by testing, evaluating, and refining them using advanced statistical metrics and iterative optimization techniquesCollaborated with cross-functional teams to integrate AI-driven solutions into production.Deployed machine learning models to production on Azure cloud platforms, ensuring seamless integration and scalability	

University Of Hertfordshire Data Science – NLP(Intern)	Hatfield, United Kingdom Feb. 2022 – May 2022
<ul style="list-style-type: none">Developed a personalized outfit recommendation system using NLP tools like NLTK and spaCy, enabling accurate style matching and customized clothing suggestions tailored to user preferencesApplied BERT for deep semantic analysis, capturing nuanced meanings in user inputs to improve recommendation relevance and enhance user satisfaction with precise outfit selectionsDeployed the solution on cloud platforms, ensuring scalability and quick response times to accommodate user demand	

Accenture India Pvt LTD Data Analyst	Bangalore, India July. 2018 – May 2021
<ul style="list-style-type: none">Developed robust labelling standards and pre-processed large datasets, ensuring high-quality inputs for model training and optimizing deep learning models for performance and scalabilityDesigned and implemented machine learning models for content moderation and classification, leveraging tools like TensorFlow and PyTorch to handle large-scale user-generated content efficientlyPartnered with cross-functional teams to identify trends in content violations, aiding in the development of predictive models for anomaly detection and early identification of harmful patternsSpearheaded process improvement initiatives by extracting actionable insights from annotated datasets, optimizing workflows using data-driven insights, and implementing iterative feedback mechanisms to improve model training and operational efficiency.	

EDUCATION

University of Hertfordshire MSc in Data Science and Analytics with Advanced Research (2021 - 2023)	Hatfield, United Kingdom
East Point College of Engineering and Technology B.E in Information Science and Engineering (2014 - 2018)	Bangalore, India

KEY PROJECTS

Recursive Job Matching
<ul style="list-style-type: none">Designed and implemented a data-driven web application leveraging the Google Gemini Pro API to analyse resumes and job descriptions. Delivered personalized feedback by aligning resumes with specific job requirements using advanced NLP techniquesEngineered a custom API to retrieve and integrate relevant job data from portals, optimizing the application's data pool for targeted employment insights.

Automatic Website Categorization using Machine Learning

- Developed an automated python system utilizing TF-IDF vectorization and K-means clustering to categorize web browsing history into categories like "entertainment" and "productivity"
- Enhanced data analysis and reporting capabilities by enabling efficient grouping and analysis of web browsing patterns
- Stored and reused trained models for instant predictions of website categories, optimizing system performance and response times

Image Inpainting and Extension using Stable Diffusion

- Developed a data-driven image outpainting solution using Stable Diffusion to extend and blend digital image backgrounds, enhancing visual coherence
- Implemented custom mask generation and optimized GPU-accelerated pipelines with PyTorch, ensuring efficient processing and high-quality outputs
- Managed model dependencies and resolved issues with Hugging Face libraries, ensuring robust and reliable deployment

SKILLS & CEERTICATIONS

Technical Skills:

- Python
- MySQL
- Android Studio
- Machine learning (Linear Regression, KNN, K-Means Clustering, Natural Language Processing, GENAI)
- Neural networks (VGG16 model)
- Keras
- Generative AI (Google Gemini pro).
- Power BI
- Azure
- Microsoft Excel, PPT

Workshop and Certificates:

- Career Essentials in Generative AI by Microsoft and LinkedIn
- Data Science and Machine Learning (Udemy)
- Introduction to Programming using Python (Udemy)
- IoT application Development from CISCO-RVCE workshop
- Microsoft Excel Certification (Udemy)
- Summer Analytics 2024 - Consulting & Analytics Club, IIT Guwahati