

Adeep Sri Narayana

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Summary

Dedicated Data Scientist with a strong foundation in advanced analytical techniques and a proven track record of implementing AI-powered solutions. Proficient in Python and SQL, with hands-on experience in Deep learning, NLP, and Large Language Models. Skilled in critical thinking and problem-solving, with a focus on leveraging AI to drive data-driven decision-making and optimize work-flow automation.

Technical Skills

- **Data Manipulation:** Numpy, Pandas, BeautifulSoup, Scrapy
- **Data Visualization:** EDA- Matplotlib, Seaborn, Plotly, PowerBI, Tableau
- **Machine Learning:** Scikit-Learn, XGBoost, Time Series Analysis
- **MLOPs:** Github Actions, Gitlab CI/CD, MLflows
- **Deep Learning:** PyTorch, TensorFlow, Keras
- **Natural Language Processing:** NLTK, NER, Spacy, word2vec, Kmeans, KNN, DBscan
- **Computer Vision:** openCV, Yolo-V5, unet, cnn, resnet
- **Version Control:** Git, Github, Gitlab
- **Database:** SQL, PostgreSQL, NeonAI
- **Web Frameworks:** Streamlit, Flask, FastAPI,
- **Generative AI** - HuggingFace, LLM, Langchain, GPT-3.5, and GPT-4
- **Deployment-** AWS, GCP, Docker, Google Vertex AI, Data Robot AI,

Education

University of Galway, Master in Computer Science – Artificial Intelligence Sept 2023 – Sept 2024

- **First Class Honours (1.1)**
- **Coursework:** Principles of Machine Learning, Deep Learning, Advance Natural Language Processing, Embedded Image Processing, Multi-Agent Learning, Reinforcement Learning, Knowledge Graph, Knowledge Representation, Tools for AI, Information Retrieval, AI and Ethics

SRM University, Delhi-NCR, India, Bachelor in Computer Science – Data Science Aug 2018 – Oct 2022
And Artificial Intelligence (IBM)

- **First Class Honours (1.1)**
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory, System Design, fundamentals for Machine Learning, Natural Language Processing, IBM Cloud

Experience

Sales Manager, Spar | Cork, Ireland (Part-Time) Sep 2024 – Current

- Conducted sales performance analysis and demand forecasting to optimize inventory and drive revenue growth.
- Applied data-driven decision-making using sales trends, customer behavior, and operational metrics to improve profitability.
- Managed inventory and supply chain using data insights, reducing waste and enhancing product availability.
- Built and maintained KPI dashboards to monitor sales, workforce efficiency, and operational performance.

Associate Data Scientist – Applied AI, Medway | Noida (UP), India June 2021 – July 2023

- Built data-driven recommendation systems to personalize learning paths, suggesting topics and practice questions based on user behavior, performance metrics, and preparation timelines — leading to a 22% increase in user engagement.
- Analyzed student performance data across 20,000+ questions and 500K+ test entries to uncover learning gaps,

optimize content delivery, improving engagement by 22%.

- Optimized content recommendation strategies by implementing TF-IDF and BERT-based NLP models, enhancing user engagement and increasing article visibility and work cross- functionally.
- Collaborated with product, content, and engineering teams to deploy tests, track user behavior funnels, and generate interactive dashboards (using Python + SQL + Power BI) for internal decision-making.

Data/Content Analyst (Freelance), The Sports Rush(| Gurugram, India (Remote) Jan 2022 – Sep 2022

- Applied basic NLP techniques (keyword extraction, sentiment analysis) to optimize UFC/MMA articles, improving SEO and increasing organic traffic by 35%.
- Published over 200+ data-backed articles, using insights from content analytics to drive engagement and reduce bounce rate by 20%.
- dashboards with Python (Seaborn, Matplotlib), SQL, and Tableau to track article performance, trending topics, and user behavior.
- Collaborated with content managers and editorial stakeholders to deliver actionable insights, aligning publishing strategy with audience data and business objectives.

Projects

Trust-Aware Multi-View Learning for Hand Pose Estimation (Thesis) [Link](#)

- Developed a model for hand pose estimation, integrating multiple neural networks to handle uncertainty, achieving improved accuracy by 13% compared to the state of the art.
- Utilized PyTorch for deep learning frameworks and build multiple baseline model.
- Implemented data structuring and advanced data augmentation techniques to enhance model reliability under challenging conditions such as noise and occlusion.
- Evaluated multiple factors into a trust metric to prove DL model stability and ethical Explainable AI.

Doctor Diagnosis AI Agent [Link](#)

- Developed an AI-powered chat-bot for interactive diagnosis discussions with OCR-based data extraction for medical reports.
- Performed disease diagnosis using AI medical models like GPT-4, Med-PaLM, or BioGPT.
- Provided interactive chatbot support for further health-related inquiries.

Real-Time Video Filter System on Nvidia Jetson Nano [Link](#)

- Developed real-time video filters leveraging machine learning and OpenCV on Nvidia Jetson Nano, utilising CUDA for GPU-accelerated processing.
- Optimised multimedia pipelines with GStreamer, enhancing system efficiency and performance.
- Integrated advanced vision models like Haar Cascades and PPHumanSeg for precise segmentation and real-time video enhancements.

Certifications

Microsoft Technology Associates: Python Programming | Oct 2019 – Dec 2019

IBM CLOUD Applications (IBM Watson) | Dec 2018 - Jan 2022

Smart Knower – Machine Learning | Dec 2020 - Jan 2021

References

Dr. Matthias Nickles- Programme Director (Msc Computer Science- Artificial Intelligence), Insight SFI Research Centre for Data Analytics, Data Science Institute, University of Galway.