Deepanshu Phuloria

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PROFESSIONAL SUMMARY

Experienced Machine Learning Engineer with 4 years of expertise researching and applying advanced models to solve complex business challenges. Demonstrated leadership, exceptional communication, and strong analytical skills. Passionate about transforming data into actionable insights. Quick to learn and proficient in mastering new technologies and methodologies.

EDUCATION

Queen Mary University of London   September 2021 – September 2022
Masters in Artificial Intelligence   *London, United Kingdom*

Massachusetts Institute of Technology   May 2024 – Ongoing
Micro-Masters in Machine Learning and Statistics via EdX   *Remote*

Guru Gobind Singh Indraprastha University   August 2015 – June 2019
Bachelors in Electronics and Communication Engineering   *New Delhi, India*

SKILLS SUMMARY

- **Languages & Frameworks**: Python, C++, PyTorch, TensorFlow, scikit-learn, ONNX
- **ML Competencies**: ML Architecture Design, Deep Learning, Feature Engineering, Generative AI, LLM
- **Software Engineering**: API Development, Code Review, Version Control, Agile Methodologies
- **Tools**: Docker, Kubernetes, Apache Spark, Airflow, Git, TensorRT-LLM, SpaCy, PySpark, XGBoost, CUDA
- **Domain Knowledge**: Applied Mathematics, Life Sciences Applications of AI/ML
- **Platforms**: Jupyter Notebook, Google Colab, VS Code
- **Soft Skills**: Communication, Collaboration, Continuous Learning, Focus, Commitment, Self-Motivation, Critical Thinking

WORK EXPERIENCE

Machine Learning Consultant (Freelance)   November 2022 – Ongoing
Upwork Freelance   *London, United Kingdom*

- Built models, services, and libraries that fulfilled API contracts and key metrics, iterating on design and training processes to improve performance.
- Developed and aggressively tested a GAN-based DeepFake image detection model, ensuring specification was met and facilitating seamless deployment.
- Proactively communicated project status, problems, and delays to clients and sought feedback for continuous improvement.
- Committed code early and often, engaging in code review as a tool to enhance engineering practices.
- Frequently demoed work and lessons learned to the team, fostering a collaborative environment.

Data Transcriber   November 2023 – May 2024
Sigma AI   *London, United Kingdom*

- Led a team to achieve 90% data accuracy, enhancing overall data quality.
- Improved transcription processes, reducing the time consumption by 20% and boosting efficiency.
- Analysed and streamlined workflow processes, resulting in a 30% increase in team productivity
- Conducted quality audits, reducing errors by 35% and enhancing data integrity.

Algorithm Engineer   July 2019 – August 2021
Rewati Builders and Co.   *New Delhi, India*

- Led the development of a multimodal network combining Computer Vision and NLP for a real estate compatibility checker, resulting in a 20% sales boost.
- Developed property portfolio optimisation models, applying machine learning methods to identify high-potential properties and improve returns.
- Engineered and tested a sentiment analysis model to elevate customer sentiment and provide strategic insights.
- Maintained and enhanced multi-modal network pipelines, integrating modern ML architectures and platforms.

AWARDS AND ACHIEVEMENTS

Best Developer & Innovator   April 2021
- Recognised for exceptional contributions, and developing cutting-edge multimodal models that drove company success and innovation.

Data Wizard   January 2021
- Recognised for exceptional data preprocessing, feature engineering, and data manipulation skills, resulting in high-quality datasets for machine learning models.

KEY PROJECTS

Predictive Maintenance Model

- Developed a model to predict equipment maintenance needs, reducing downtime by 12% and saving approximately $450,000.
- Iteratively improved model design and training processes to enhance performance and accuracy.

Real-Time Fraud Detection Algorithm

- Designed and implemented a custom fraud detection algorithm, rigorously testing to ensure accuracy and specification compliance.
- Communicated with stakeholders to refine requirements and ensure timely delivery.

Interactive Chatbot Development

- Built an interactive chatbot using DeepPavlov, reducing response time by 25%.
- Committed code frequently and utilised feedback to continuously improve the system.

PROFESSIONAL AFFILIATIONS

- Member, Institute of Electrical and Electronics Engineers (IEEE)
- Member, British Computer Society (BCS)

Spoken Languages: English (native), Hindi (native), German (beginner)