Deepanshu Phuloria

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WORK EXPERIENCE

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

- **Custom ML Solutions**: Developed a **predictive maintenance model** that reduced equipment downtime by 12%, saving over $500,000.
- **DeepFake Detection**: Successfully developed a **GAN-based DeepFake image detection** model for a client, ensuring timely project delivery.
- **Project Leadership**: Orchestrated collection of 8,600 videos, and 4,400 images from over 200 participants.
- **Data Analysis**: Revealed key demographic trends, **boosting ROI by 35%**.
- **Fraud Detection System**: Developed real-time fraud detection, potentially saving millions.
- **NLP Innovation**: Developed an **interactive chatbot**, reducing response time by approximately 25%.
- **Model Integration**: Enhanced recommendation system by integrating a **transformer-based model**, boosting user engagement by 10%.

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

- Pioneered **cutting-edge multimodal networks**, uniting Computer Vision, and NLP in a real estate compatibility checker. The outcome: 20% sales boost and happier customers.
- Spearheaded property **portfolio optimization**, unearthing high-potential properties for enhanced sales and returns.
- Engineered a **sentiment analysis model**, elevating customer sentiment by approximately 15% for strategic insights.
- Optimized data processes and storage, **enhancing efficiency by 30%** for quicker data-driven decisions.
- Led **predictive churn modeling**, slashing churn rates by 25% and fortifying customer loyalty strategies.

EDUCATION

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

Massachusetts Institute of Technology   February 2021 – May 2021
Micro-Masters in Machine Learning via EdX   *Remote*

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

AWARDS AND ACHIEVEMENTS

- **Awarded Best Developer & Innovator**: Recognized for exceptional contributions, and implementing cutting-edge ideas that drove company success and innovation.
- **Data Wizard**: Recognized for exceptional skills in data preprocessing, feature engineering, and data manipulation, resulting in high-quality datasets for machine learning models.

CORE COMPETENCIES

- Machine Learning
- Computer Vision
- Reinforcement Learning
- GANs
- Predictive Modeling
- Tensorflow
- Pytorch
- Cuda
- Bayesian Statistics
- OpenCV
- Feature Engineering
- Sci-Kit Learn
- Time-series
- Pose Estimation
- Object Detection
- Large Language Models (LLMs)
- Natural Language Processing (NLP)
- MLflow
- AWS
- Kubernetes
- GCP
- Apache Spark
- Pandas

FEATURED PROJECTS

- Multimodal Network for Property Analysis
- Medical Image Segmentation using 3D CNNs
- Seeing Behind Objects Using Shadows
- Human Pose Estimation in Dynamic Environments
- Automated Analysis of Echocardiograms
- Natural Language Generation for Medical Reports