Anubha Parashar

Research Scientist

GenAI | LLM | NLP | Computer Vision | Deep Learning
Artificial Intelligence |Machine Learning | IoT

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WORK EXPERIENCE

CURRENT, FROM APR 2024

1. Invincible Ocean, Gurugram, India
Research Scientist - AI and Metaverse

- **Vehicle RC Data Chatbot:** Fine-tuned a Large Language Model to handle vehicle RC data queries. Developed a user-friendly chatbot, reducing manual search time by 70% and providing instant access to vehicle information.
- **Virtual Try-On (VITON) System:** Created a Virtual Try-On platform using deep learning to overlay clothing on user photos, achieving a 95% user satisfaction rate.
- **Text Recognition and OCR System:** Designed and trained neural networks with Tesseract, PaddleOCR, and Paddle NLP, attaining 98% accuracy. Developed a Label Studio backend for auto-annotation, APIs for OCR on base64 images, Dockerized various components, and created a Gemini assistant for information extraction.

JAN 2018 – APR 2023

2. Doctoral Research
Robust Gait Recognition System Using Deep Learning to Handle Covariates

- Automated gait recognition to identify individuals based on body shape and walking styles. Developed a deep learning pipeline to handle covariates such as clothing variations, object carrying, different viewing angles, and occlusions.

  FER, University of Zagreb, Zagreb, Coratia (Sep 2018 – Dec 2019)
- **De-Identification Using Deep Learning:** Designed a pipeline to modify face geometry and texture, preserving dataset privacy without compromising naturalness.

JUL 2016 – APR 2024

3. Manipal University - Assistant Professor

JUL 2013 – JUL 2014

4. Sconad Communication, Mumbai, India
Level 3 Research Associate

– Identified procedural areas of improvement through customer data to improve the profitability of a nationwide retention program by 8%.

COURSES

1. **Data Science Fundamentals with Python, SQL** IBM
2. **Deep Learning Specialization.** Stanford University
3. **Machine Learning Specialization.** Washington univ.
4. **Deepstream for Video Analytics on Jetson.** Nvidia
5. **AI on Jetson Nano.** Nvidia
6. **Fundamentals of Digital Marketing.** Google

EDUCATION

2018 – 2023 **Doctor of Philosophy**
Computer Science and Engineering (AI)
Manipal University, India

2014 – 2016 **Master of Technology**
Computer Science and Engineering (AI)
Maharshi Dayanand University, Rohtak, India

2009 – 2013 **Bachelor of Technology**
Computer Science and Engineering
Maharshi Dayanand University, Rohtak, India

SKILLS

Programming:	Python (advanced), Java.
Data Manipulation:	SQL, NoSQL, CSV, JSON, PySpark.
Data Analysis & Visualization:	Pandas, NumPy, Matplotlib, Seaborn.
Frameworks:	Scikit-learn, TensorFlow, Keras, PyTorch, Llama, ChatGPT.
Statistical Techniques:	Regression, Classification, Clustering, LLM, Dimensionality Reduction, NLP, Computer Vision.
Cloud Platforms:	Hugging Face Hub, Azure, GCP.
Deployment & DevOps:	Flask, Docker, CI/CD.
Hardware:	Jetson Nano, Raspberry Pi, Arduino, Banana Pi.

PATENTS - (6) & JOURNALS - (42)

1. A Covariate-based Gait Recognition System and Method for Edge A nalytics Using Optimized Deep Learning Pipeline. *Indian Patent*, *Status: Granted* (202111034240) (2022).

2. A Parashar, Advancements in artificial intelligence for biometrics: a deep dive into model-based gait recognition techniques, Engineering Applications of Artificial Intelligence, *2024*(Q1) SCI, IF – 8.34.

3. A Parashar, et.al., Deep Learning Pipelines for Recognition of Gait Biometrics with Covariates - A Comprehensive Review. *Artificial Intelligence Review.*, *2023* (Q1) SCI, IF – 9.588.

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