Anubha Parashar

Research Scientist

GenAI | Computer Vision | Deep Learning | NLP | LLM
Artificial Intelligence | Biometrics |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%.

AWARDS

OCT 2022	Young Researcher Award- *Manipal University*
SEP 2022	Top Achiever Award - *Manipal University*
DEC 2019	Best Poster Award for Gait Biometrics
DEC 2019	Best Project Award for AI-Based Chess
DEC 2019	Second Best Project Award for Smart Marker
SEP 2018	World Association for Innovative Technology Award For Science & Technology, Zagreb, Croatia

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

LANGUAGE	Python (numpy, pandas), Java
LIBRARIES	LLM, Stable diffusion, Keras, Dlib, GPT-3
SOFTWARE	Anaconda, Matlab, Colab, Tensorflow, Pytorch
HARDWARE	Jetson Nano, Raspberry Pi, Arduino, Banana Pi
CLOUD	Hugging Face Hub, GCP, Thingspeak
DATABASE	Firebase, MySQL, MongoDB

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.

MORE

COURSES

1. **Data Science Fundamentals with Python and SQL Specialization.** IBM - April 2022.
2. **Deep Learning Specialization.** Stanford University - April 2022
3. **Machine Learning Specialization.** University of Washington - April 2022
4. **Getting started with Deepstream for Video Analytics on Jetson.** Nvidia - May 2021
5. **Getting Started with AI on Jetson Nano.** Nvidia - March 2021
6. **Fundamentals of Digital Marketing.** Google - July 2020