Anubhav Kumar Singh

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Cross Platform AI Specialist with 4+ years of expertise in Machine Learning (ML), Deep Learning, Computer Vision, Natural Language Processing (NLP), and Generative AI. Proven track record of building scalable AI solutions for complex, real-world problems, including predictive analytics, automation pipelines, and autonomous systems. Experienced in deploying ML models, optimizing performance, and leveraging cloud platforms (AWS/GCP) for production-ready systems. Known for integrating AI-driven insights to accelerate decision-making and improve business outcomes.

WORK HISTORY

Cross Platform AI Specialist

Techolution, Hyderabad, Telangana | June 2023 - Current

- Collected and analyzed large datasets from robotic sensors and computer vision pipeline for an AI-powered robotic arm, enabling precision object recognition and manipulation using LSTM-based models.
- Integrate Generative AI for enhancing autonomous installation processes, including real-time error detection and correction through langchain api call to claude
- Conducted data preprocessing and applied advanced analytics on product in health care to develop an AI-driven defect detection system, reducing error rates and improving operational efficiency
- Integrated RAG-based document processing system for medical records using LangChain

Associate Solution Leader (Team Lead)

Brane Enterprises Pvt Ltd, Hyderabad, Telangana | August 2021 - June 2023

- Led multiple computer vision projects, focusing on autonomous navigation systems, vision-based gesture recognition, and robotics perception systems, driving innovation
- Applied supervised learning techniques to improve prediction accuracy and performance in off-roading autonomous vehicles
- Developed IoT devices, such as smart switches, designed for home use and scalable for mass production

CERTIFICATIONS

- Practical AI with Python and Reinforcement Learning – Udemy
- Agile Project Management – Google
- Built Local Development Environments Using Docker – Coursera

PATENTS

- High Voltage Shielding – Patent No: IN 201811018810
- Human-Controlled Battle Bots – Patent No: IN 201811016109
- Brain-Wave Controlled Electric Skateboard – Patent No: IN 201911035498
- Vehicle Shielding System – Patent No: IN 201811029398

WEBSITES, PORTFOLIOS, PROFILES

- https://www.linkedin.com/in/anubhav7singh/
- https://anubhav.ddns.net

ACHIEVEMENTS AND AWARDS

- Won the Technovation Hackathon at Sharda University by developing a high-voltage shielding system and was awarded a cash prize of ₹50,000, which was also featured on national television.
- Secured Top 5 Finalist position in the International Wearable Competition (Instructables) with a high-voltage project (https://www.instructables.com/A-Punch-of-Thousand-Volt/)

SKILLS

AI & Deep Learning TensorFlow • PyTorch • Scikit-learn • Transformers • GANs • LSTM • CNN • R-CNN • BERT • LLMs • Diffusion Models • Reinforcement Learning

Computer Vision YOLO • Object Detection • Image Classification • Segmentation • Real-time Tracking • OpenCV • Image Generation

NLP & GenAI Tokenization • Entity Recognition • LangChain • LLaMA • Hugging Face • Embeddings • Vector Databases • RAG • Prompt Engineering

MLOps & Infrastructure AWS SageMaker • GCP Vertex AI • Docker • Kubernetes • MLflow • DVC • Model Monitoring • A/B Testing • CI/CD for ML

Data Engineering Data Exploration • Feature Engineering • Data Pipelines • ETL • Data Warehousing • Apache Spark • Databricks

Programming & Tools Python • SQL • Pandas • NumPy • Jupyter • Git • REST APIs • FastAPI • Streamlit

EDUCATION

B.Tech in Electrical and Electronics Engineering

Galgotias College of Engineering and Technology, Noida, IN | January 2020

PROJECTS

Healthcare Chatbot - Created specialized medical assistant using GPT and custom medical knowledge base

Autonomous Quality Control - Created computer vision pipeline for defect detection using YOLOv8

Natural Language Processing DoorBot – Implemented transformer-based voice recognition system with custom fine-tuned model achieving 95% accuracy in noise-resistant environments.

Autonomous Vehicle ML Framework – Created end-to-end deep learning pipeline for self-driving capabilities using behavioral cloning and reinforcement learning.

Neural Signal Processing Interface – Developed neural network architectures for EEG signal classification with 88% accuracy in intent recognition.