AYUSHI SINGH

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PROFESSIONAL SUMMARY

Graduate in Artificial Intelligence and Computer Science with strong foundations in engineering, data-driven problem solving, and cloud technologies. Experienced in applying automation, analytics, and scalable solutions to real-world challenges through collaborative, cross-functional projects. Passionate about innovation, continuous learning, and contributing to healthcare transformation by combining technical expertise with a strong commitment to teamwork and operational excellence.

EDUCATION

Master of Science in Artificial Intelligence and Machine Learning

University of Limerick, Ireland | Sep 2023 - Aug 2024 | Second Class Honours, Grade I
Relevant modules: Data Engineering and Machine Learning, Machine Vision, Al for Games, Evolutionary
Computation and Humanoid Robotics, Advanced Al Ecosystems, Probabilistic and Explainable Al, Deep Reinforcement Learning

Bachelor of Technology in Computer Science and Engineering

Dr. A.P.J Abdul Kalam Technical University | Jul 2019 - Jun 2023 || First Division with Distinction Relevant modules: Cloud Computing, Database Management Systems, Data Mining, Python, Data Structures and Algorithms, Computer Architecture, Compiler Design, Operating Systems, Cryptography, Computer Networks, Big Data, Machine Learning

TECHNICAL SKILLS

Languages: Python, OOP, Data Structures & Algorithms

Cloud/DevOps: AWS (SageMaker, Lambda, CloudWatch, API Gateway, IAM, S3, EC2), Git, CI/CD

Frameworks/Tools: NumPy, Pandas, Scikit-learn, OpenCV, NLTK, Apache Spark, Hadoop, CARLA Simulator

Concepts: ML Pipelines, NLP, Computer Vision, Agile, SaaS environment

WORK EXPERIENCE

Artificial Intelligence Intern & Machine Learning | Vimal Daga Informatics Pvt. Ltd. | April 2023 - September 2023

- Developed a real-time sign detection system using deep learning showcased problem-solving and innovation.
- Built predictive models to analyse trends, Optimized models, reducing computational cost by 15% and improving accuracy by 20%.
- Actively collaborated with peers, demonstrating communication and teamwork.
- · Applied supervised and unsupervised learning techniques for regression and clustering.

Python Programming Intern | Intershala | May 2022 – July 2022

- Automated data processing tasks, reducing manual effort by 30%.
- Analysed datasets using Python libraries.
- · Delivered data-driven insights through visualization and analysis.

PROJECTS

Sensor Fusion for Autonomous Vehicles (Dissertation)

- Developed and evaluated sensor fusion techniques (LiDAR, radar, cameras) using CARLA Simulator for enhanced autonomous vehicle safety.
- Demonstrated increased vehicle perception and decision-making accuracy in complex conditions.
- · Conducted experiments with multiple sensor setups to improve obstacle detection and navigation.

Research Paper: Motion Planning and Bipedal Walking in Humanoid Robots

- Analysed AI algorithms for gait planning, sensor integration, and stable walking behaviours in humanoid robots
- Integrated sensors for real-time balance adjustments.
- · Optimized for hardware compatibility and performance along with Evaluating stability under dynamic conditions.

Smart Resume Analyzer (Project Leader)

- Developed an NLP-powered resume analysis tool using Python.
- Deployed tool for real-time, data-driven resume feedback.
- Enhanced scoring accuracy by 30% through optimized algorithms.

Scaling Sentiment Analysis Using AWS SageMaker

- Developed scalable sentiment analysis using AWS SageMaker, Lambda, CloudWatch, and API Gateway.
- Built and deployed machine learning models for sentiment classification.
- Managed data preprocessing, model training, and scalable API endpoints.

CERTIFICATIONS

- AWS Academy Graduate Cloud Foundations | Apr 2024
- Python Programming IIT Kanpur | May 2022
- Machine Learning AWS Skill Builder | Apr–Jun 2024

STRENGTHS

- · Agile collaboration and cross-functional teamwork
- · Strong communication and presentation skills
- · Detail-oriented, curious, and eager to learn new technologies
- Proactive problem solver in dynamic environments