BIPIN CHOWDARY | AI Artificer | Mail: Bipin.chowdary8055@gmail.com | Contact: LinkedIn

PROFESSIONAL SUMMARY

AI Engineer with hands-on experience in Artificial Intelligence, Machine Learning, and Robotics. Holds an Honours degree in AIML with a minor in Robotics and Automation, alongside a Diploma in Electrical and Electronics Engineering (EEE). Skilled in developing and implementing machine learning algorithms and deep learning architectures to address complex industry challenges. Experienced in applying AI solutions across various domains, with a strong interest in Research and Development and expertise in Robotics, Automation, and advanced AI applications.

EDUCATION

- **Bachelor of Technology (Honors) in Artificial Intelligence and Machine Learning | 2021 - 2024**
  Quantum University, Roorkee, India
    - Minor in Robotics and Automation
- **Diploma in Electrical and Electronics Engineering (EEE) | 2018 - 2021**
  A.A.N.M & V.V.R.S.R. Polytechnic, Gudlavelleru, India

INTERNSHIP EXPERIENCE & KEY PROJECTS

Electrical Engineering Intern - APGENCO | PowerGrid | 6 months
- Increased grid reliability by 20% through optimization of electrical systems in collaboration with engineering teams.
- Contributed to maintenance projects that reduced downtime by 15% over six months.

Web Development Intern - Lets Grow More | Portfolio and Web Design | 2 months
- Improved client online presence by designing five user-friendly websites, resulting in a 45% increase in engagement.
- Enhanced user engagement metrics by 50% through implementation of best practices in web design.

Cloud Computing Intern - Google Cloud | DevOps and Cloud Engineering | 6 months
- Streamlined cloud deployment processes, reducing service delivery time by 40% through optimized infrastructure.
- Enhanced operational efficiency by 20% through collaborative projects focusing on process improvements.

AI & Machine Learning Intern - Xebia | AIML Algorithms and Deep Learning Architectures | 36 months
- Developed advanced AIML models, contributing to two academic research publications.
- Successfully implemented deep learning architectures, achieving 85% model accuracy on real-world applications.

AI & Robotics Automation Intern - RoboLabs AI | Automation and Robotics | 6 months
- Improved robotic function efficiency by 30% through automation solutions integrated with AI technologies.
- Led a team in automation projects, resulting in a 25% reduction in operational time.

Autonomous Smart City | Electronics and Robotics Project | Summer 2021
- Created a pilot-less railway network model, reducing the need for manual intervention by 90%.
- Designed a remote-operated construction crane, increasing operation precision by 40%.

Deep Convolutional Generative Adversarial Networks (DCGAN) | Deep Learning Project | Summer 2022
- Developed and trained DCGANs, achieving a 90% success rate in image generation tasks.
- Enhanced model reliability by 25% through innovative deep learning techniques.

Navigation of 4-Omni Wheeled Robot Using Gradient-Based Algorithms | Robotics Project | Fall 2022
- Designed navigation algorithms, improving pathfinding efficiency by 40% and obstacle avoidance by 35%.
- Applied model predictive control, resulting in a 30% increase in navigation accuracy.

Industry-Specific Website Development Projects | Client Service Projects | Winter 2023
- Boosted product visibility by 70% for JV Industrial Marketing through a custom showcase website.
- Developed a user-friendly platform for MCC Hostels, increasing accommodation connections by 80%.

Crowd Management and Anomaly Detection | Computer Vision Project | Spring 2024
- Analysed crowd patterns using computer vision, increasing detection accuracy by 30% to enhance crowd safety.
- Directed the project, implementing innovative safety measures that reduced response time by 20%.

Fuel Efficiency Prediction to Reduce Carbon Emissions | Machine Learning Project | Summer 2024
- Led a data collection and analysis that improved fuel efficiency predictions by 75%, creating an industry-ready application.
- Directed a team, leveraging Streamlit and Machine Learning, to achieve a 25% reduction in data processing time.

TECHNICAL SKILLS

Programming Languages: Python, R, MATLAB
AIML & Computer Vision Frameworks: TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV, PIL, Dlib
Robotics Frameworks & Embedded Systems: ROS, Gazebo, OpenRAVE, Arduino, Raspberry Pi, FPGA Programming
Version Control: Git, GitHub, Docker
Simulation & Modelling: V-REP, Webots, Simulink