Suman Deb

+44 - 7827387465 | suman8deb@gmail.com | [LinkedIn](#) | [GitHub](#)

Software developer with a Master's in AI and 5 years of experience in designing, building, and deploying ML models and algorithms, as well as automating processes using RPA. I am driven by a continuous desire to tackle new challenges and expand my proficiency in Python, my primary programming strength. My experience includes extensive data-prepossessing, organizing large datasets, algorithm selection, model training, hyper-parameter tuning, and collaborating with cross-functional teams to integrate AI/ML solutions into applications.

WORK EXPERIENCE

Machine Learning Engineer   Aug *2024 - Present*
Upsurge Labs   *Contract (remote)*
- Design and optimize LLM-driven RAG pipelines with Lang-chain, integrating custom tools, fine-tuning models, and managing data pipelines for scalable, high-performance AI systems. Collaborate across teams to align AI capabilities with business goals, ensuring robust security, compliance, and continuous innovation.
- Architect and deploy advanced computer vision systems utilizing deep learning models for real-time object detection, segmentation, and recognition, whilst optimizing algorithms for computational efficiency, scalability, and cross-platform deployment in dynamic, real-world environments.

Machine Learning Engineer   *Jan 2022 - Jan 2023*
Zycus Infotech   *Bangalore, India*
- Developed a Smart-shopper application using RFM analysis and NLP libraries (SpaCy, NLTK), used by over 10,000 buyers.
- Implemented ML solutions for S2P and P2P product modules, enhancing accuracy by 25% and improving the intelligence of procurement processes.
- Created a quote extraction system using image processing to extract supplier quotes from contracts and PO.
- Adopted MLOps practices for model deployment and monitoring using AWS, Docker and CI/CD pipelines.

Software Engineer (RPA)   *Jun 2020 - Jan 2022*
Zycus Infotech   *Mumbai, India*
- Worked with implementation & delivery teams to optimize workflow processes and reduce manual intervention, saving more than 100,000 manual hours per month.
- Developed automation using Selenium, Pandas, API (XML/JSON), MIME, API (REST/SOAP), and SFTP with Python.
- Deployment & maintenance of RPA on Windows server and GIT - Jenkins platforms.
- Client specific bulk UI extraction, product sanity, and release testing/ reporting automation.
- Automated industry ticketing tools like Salesforce and JIRA.

Product Technical Analyst   *Jul 2019 - Jun 2020*
Zycus Infotech   *Mumbai, India*
- Worked as a part of TAM team on analysis & resolution of S2P modules focusing on sourcing, contracting, and vendor management.
- Collaborated with customer representatives & internal team members to clarify the relationship of business, project goals, and obtain an enhanced perspective of development.
- Use Salesforce ticketing tool, Power BI and JIRA to raise, track & resolve queries.

EDUCATION

University of Aberdeen   *Jan 2023 - Jun 2024*
MSc. in Artificial Intelligence - 1st Class Hons (Distinction)

KEY ACHIEVEMENTS

- Awarded as a monthly achiever 5 times at Zycus for Merlin eProc AI Auto Train Pipeline and Involvement in RPA projects.
- Elected President of Google Developer Student Club in University of Aberdeen.
- Won the Scottish Conference Cup for university as a football player.

CERTIFICATIONS

- ML Guided Projects Program - The Machine Learning Company
- Hands-On Python & R In Data Science & Machine Learning - Udemy
- Automation Anywhere- RPA Training Course - Udemy

SKILLS

- **Programming Languages:** Python, PDDL, Groovy
- **AI/ML Frameworks:** TensorFlow, Keras, PyTorch, Scikit-Learn, LLM
- **Tools:** Docker, Kubernetes, AWS , Jenkins, GIT, Power BI, Flask

- **Automation:** RPA, Selenium
- **Practices:** Agile, API dev, CI/CD, SDLC
- **Systems:** Linux, Embedded Systems