ASHISH LOTAKE

Data Analyst / Data Scientist / Machine Learning Engineer

📞 +918888588053 ✉ ashishlotake@duck.com in linkedin.com/in/ashishlotake ○ github.com/ashishlotake ⊕ ashishlotake.com

SKILLS

Excel | SQL | Python | Numpy | Pandas | Matplotlib | Scikit learn | Git | Docker | AWS | Tensorflow | Pytorch | CNN | NLP

EDUCATION

Diploma in Artificial Intelligence & Machine Learning | *University of Hyderabad*   **81.7% | 2023**
Courses: *Statistics, Machine learning, Optimization, Neural networks, Deep Learning (CNN, NLP, RNN), ETL*

B.E. Mechanical Engineering | *Savitribai Phule Pune University*   **8.32 GPA | 2021**

EXPERIENCE

Artificial intelligence Technical Intern   **May 2022 – August 2022**
Super A.I.P.   *Delhi*

- Integrated open-source Natural Language Processing tool RASA to develop a conversational end-user chatbot, reducing response time by 35%.
- Generated data-driven insights and implement tailored strategies to create an automated customer service system, boosting customer engagement by 25%.
- Created robust Machine Learning models using (NLP) techniques to effectively handle unstructured requests and predict user intent with an accuracy rate of 85%.
- Integrated machine learning algorithms into the chatbot backend, resulting in highly engaged customer reviews after implementation.

PROJECTS

Automated data labelling system | *Python, Docker, AWS, CNN*   **GIT Source**

- Created user interface and proposed image labeling tool powered by Streamlit and Docker, enabling users to input images, select desired labels and retrain their model in 10-15 minutes.
- Optimized cost and time savings of manual inputting by automating data labeling, improving the overall efficiency of the machine learning lifecycle by 30%.
- Implemented computer vision using transfer learning that achieved over 90% prediction accuracy for 5K+ images over 101 subclasses.
- Introduced UX improvements to better identify categories via CNN, resulting in over 95% accuracy rate of image labeling.

General Q&A Conversational ChatBot | *Python, RASA, ChatBot*   **GIT Source**

- Developed an automated QA chatbot using natural language understanding (NLU), providing answers with an 85% accuracy rate on customer queries within 6 weeks, boosting customer engagement by 10%.
- Proposed and designed question answering pipeline using natural language processing technologies, enabling a 60% faster response time versus manual processing.
- Generated questions for incoming inquiries by providing 2 relevant data points each; enabled a continual learning process to improve future customer interactions by 5%.

System for Filtering Resumes | *Pyhton, Webapp, Streamlit*   **GIT Source**

- Developed fine-tuned algorithms using numpy & pandas to identify optimal resumes on basis of Skill Requirements, increasing resource selection accuracy by 70%.
- Deployed web application utilizing Streamlit framework to provide automated skills classification resume assessment, may lead to the optimization of hiring processes by 25%.

CERTIFICATIONS

- AWS Certified Cloud Practitioner from AWS
- Python Specialization from University of Michigan
- Crafting Quality Code from University of Toronto
- SQL Basic & Intermediate from HackerRank

CONTRIBUTE TO THE COMMUNITY & EXTRACURRICULAR

PyTorch Contributor | *OpenSource*   **OpenSource**

- PyTorch is an ML framework that allows for efficient computation and building of neural networks.
- Resolved grammatical and typos in PyTorch documentation.

Volunteer Teacher | *Bhumi NGO*   **Pune**

- Guided students in their 5th-8th grade Science curricula, helping to develop an aptitude & appreciation for STEM.

Campaign Volunteer | *Youth Empowerment Foundation*   **Pune**

- Mobilized funds to provide daily necessities for vulnerable families affected by the pandemic, providing aid to 100+ beneficiaries and empowered 50+ women/girls in need with of sanitary pads.

PUBLICATIONS

Fuzzy Logic System and its Application   **IJRASET**

- Fuzzy logic is a type of mathematical logic that allows for reasoning with uncertain or imprecise information using degrees of truth.
- Analyzed and identified at least different use cases of fuzzy logic, providing core insights into data representation.