ASHISH LOTAKE

Data Analyst / Data Scientist / Machine Learning Engineer

📞 +918888588053 ✉ ashishlotake@duck.com 💼 linkedin.com/in/ashish-lotake 🐙 github.com/ashishlotake 🌐 ashishlotake.com

EDUCATION

University of Hyderabad | *Diploma in Artificial Intelligence & Machine Learning* **81.7% | 2023**

Courses: *Statistical Modelling, Machine learning, Optimization, Neural networks, Deep Learning, Spark, ETL, Hadoop, REST API*

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

RELEVANT COURSEWORK

- Data Structures
- Data Visualisation
- Algorithms Analysis
- Feature engineering
- Artificial Intelligence
- Feature Selection
- Feature Extraction
- OOPs
- Statistics
- Supervised ML
- Unsupervised ML
- Big Data

EXPERIENCE

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

- 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 machine learning, 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 machine learning algorithms 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%.

SKILLS

Programming languages: Python, SQL **Tools:** MySQL, AWS, Git, Docker, Linux, Excel, Power BI
ML/AI: Numpy, Pandas, Matplotlib/Seaborn, Scikit learn, Tensorflow/Pytorch, CNN, NLP, RNN

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

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

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

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

- Mobilized resources and funds to provide daily necessities for vulnerable families affected by the pandemic, providing aid to 100+ beneficiaries.
- Empowered 100+ women/girls in need with access to sanitary pads and education on menstrual hygiene, equipping them with the necessary knowledge.