

Akshay Ambure

Software Engineer II - AI/ML

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SUMMARY

Data Science field with 3.2+ years of experience in transforming data into actionable insights. Proven ability to build and deploy predictive models using Python and machine learning algorithms. Highly motivated and eager to contribute expertise to a fast-paced and innovative environment.

WORK EXPERIENCE

Data Scientist @ Kantar(Oct 2021 - Oct 2024)

- Communicating with client or client services team to gather the requirements.
- Designed and built surveys to automate data collection using CAWI method and cleaning processes, improving data quality and efficiency.
- Developed and implemented a machine learning model to predict customer churn.
- Convert a data into actionable insights.
- Knowledge of Python's Data Analysis and Machine Learning Libraries.
- Experience in data management tools - Relational and SQL databases.

Software Engineer II(Data Scientist) @ Terralogic Software Pvt Ltd.(Oct 2024 - Jan 2025)

- Able to investigate Data Visualization and summarizing techniques conveying key findings.
- Communicates findings and obstacles to team members to achieve best approach.
- Thorough understanding of Probability and Statistics, Bayesian methods.
- Strong communication and interpersonal skills. Ability to interact with customers with ease and professionalism.
- Developed and deployed natural language processing (NLP) models, including Large Language Models (LLMs)
- Experience in data management tools - Relational and SQL databases.

Tools/Technology : Jupyter Notebook, IX server, Anaconda, Google colab, VS code, MySQL, MS Excel, MS PowerPoint, AWS, Gen AI, JIRA.

EDUCATION HISTORY

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|---|---|
| Dr.D.Y.Patil Institute Of Technology, Pimpri
<i>B.E.(ENTC) — CGPA : 7.52/10</i> | Pune, Maharashtra
<i>2017-2021</i> |
| Bal Vidya Mandir Junior College
<i>Class XII — Percentage : 63.85</i> | Parbhani, Maharashtra
<i>2016-2017</i> |
| Bal Vidya Mandir High College
<i>Class X — Percentage : 88.80</i> | Parbhani, Maharashtra
<i>2014-2015</i> |

SKILLS

- **Python/ML Packages :** NumPy, Pandas, Sci-py, Scikit-learn, Seaborn, Matplotlib, Streamlit (Basics)
- **Statistics Probability**
- **Machine Learning :** Linear Regression, Ridge Lasso Regression, Logistic Regression, Naïve Bayes Classifier, k Nearest Neighbor's Classifier, Support Vector Machine, Decision Tree, Random Forest, Ada-Boost, XGBoost, K-means, PCA.
- **DL and NLP :** ANN,RNN,LSTM,GRU,CNN.
- **Gen AI :** Large Language Models(LLM), OpenAI, Langchain, RAG.
- **Data Cleaning Wrangling :** Data preprocessing, Feature engineering.
- **Operating Systems:** Windows.
- **Database:** MYSQL.
- **Communication :** Excellent written and verbal communication skills.
- **Problem-Solving :** Adept at identifying patterns, analyzing data, and developing solutions.
- **Teamwork :** Proven ability to collaborate effectively with cross-functional teams.
- **Languages :** English, Marathi, Hindi

PROJECTS

- **Project: NTT Docomo alarm detection**
- **Description :** This project is aim to find root cause for huge amount alarms in telecom industry.
- **Roles and Responsibilities :**
 - Mine and analyze data from company databases to drive optimization and improvement of product development.
 - Work with stakeholders throughout the organization to identify opportunities to leverage company data to drive business solutions.
 - Model Building and Evaluation.
 - Perform analysis to assess the quality of the data, determine the meaning of the data, and provide data facts and insights.
- **Project: HROS chatbot using RAG**
- **Description :** This project involves the development of a Chatbot for an HR Portal using the Retrieval-Augmented Generation (RAG) framework. The chatbot aims to streamline employee interactions with the HR department, providing instant, accurate, and personalized responses to queries about policies, benefits, leaves, payroll, and other HR-related topics.
- **Roles and Responsibilities :**
 - Design and implement the Retrieval-Augmented Generation (RAG) framework.
 - Build and fine-tune the generative model for HR-specific queries.
 - Develop and optimize the document retrieval mechanism using tools like FAISS or Elasticsearch.
 - Test and validate model outputs to ensure accuracy and relevance.

AWARDS

[Being Extraordinary Award](#) - Pr. Amazon Alexa from Japan Opco.In recognition of excellent timely contribution for Pr, Amazon Alexa BLI from Japan Opco. for taking ownership, resolving multiple queries and guiding client on concepts.