

# Amruta Malunekar

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Satpur, Nashik, 422007

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## OBJECTIVE

Innovative and results-oriented Data Scientist with 3 years of experience in leveraging data-driven techniques to solve complex problems and drive business success. Proficient in machine learning, statistical analysis, and data visualization, with a track record of delivering actionable insights and improving operational efficiency. Seeking to bring my expertise in data science and my passion for transforming data into strategic solutions to company, where I can contribute to impactful projects and advance data-driven decision-making.

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## KEY

Python, SQL, MongoDB	Linear & Logistic Regression, Naive	Deep Learning, Genai, Agents,
Pandas, Numpy, Regex	Bayes, K-NN, K-Means, SVM, PCA,	Transformer, Windows, Linux,
ML lib & NLP	Decision Tree, Random Forest,	Conda, VS Code
Git, Github, Jira, ServiceNow	Boosting Algos, Ridge, Lasso, NLP	Excel, AWS

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## COMPETENCIES

Experience using ML libraries, such as scikit learn, Seaborn, Matplotlib, SciPy, Pandas, numpy, RegEx, nltk etc.

Experience diving into data to discover hidden patterns & modeling them using several regression & classification machine learning algorithms.

Take ownership of the data science model end-to-end from data collection to model building to monitoring the model in production.

Deep Learning: Neural Networks, Deep Learning, ANN, CNN, Transfer Learning, Back Propagation, Linear Algebra, Tensorflow 2.x, Keras

AWS: Elastic Compute Cloud, Sagemaker, Notebook instance, AWS container, Simple Storage Services S3, Deployment, Multi cloud environment

NLP: Text representation techniques, understanding text, text classification,

Libraries: nltk, spacy, gensim, textblob, langdetect, googletrans, BOW, TF-IDF, W2V, S2V

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## PROFESSIONAL EXPERIENCE

June 2021 - Present

**Decision Executive - Data Sciences**

**Junior Software Engineer**

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## PROJECT

Project 1-

Description:

Developed an AI-based antivirus using advanced machine learning techniques to detect harmful and irrelevant data, ensuring business security and performance.

Roles and Responsibilities:

- Performed EDA and pre-processing on large datasets to extract meaningful features.
- Applied oversampling and feature selection methods to handle imbalanced data.
- Built and optimized model using Random Forests, achieving up to 96% accuracy through hyperparameter tuning.

Keywords: AI, machine learning, cybersecurity, data analysis, feature engineering, Random Forest, hyperparameter tuning, SMOTE, binary classification, EDA

### Project 2-

#### Description:

Analyzed document using LDA to identify and classify topics, enhancing document organization and summarization for improved information retrieval.

#### Roles and Responsibilities:

- Conducted text preprocessing and created document-term matrices using CountVectorizer.
- Performed LDA topic modeling to uncover hidden themes in the documents.
- Implemented document classification and assigned meaningful labels to topics for better data interpretation.

Keywords: LDA, NLP, machine learning, topic modeling, text preprocessing, document-term matrix, document classification, topic labeling, data analysis, information retrieval.

### Project 3-

#### Description:

Developed a document QA system using LLM and RAG techniques to efficiently retrieve and answer questions from document content, integrating custom tools for enhanced capabilities.

#### Roles and Responsibilities:

- Loaded and processed documents, splitting text into manageable chunks for vectorization.
- Created a RetrievalQA chain using LLM and vector store for accurate document-based question answering.
- Integrated and tested custom tools with the agent to expand functionality.

Keywords: LLM, RAG, document QA, text vectorization, RetrievalQA, HuggingFace embeddings, Chroma vector store, custom tools, NLP, Generative AI.

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## EDUCATION

**MCA -2024- Amity University - 7.82 CGPA**

**HSC | 2016- Maharashtra - 55%**

**BSc- 2019- Pune University -68%**

**SSC | 2014- MHSB - 78%**

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## PERSONAL DETAILS

**DOB:** 02-08-1998

**LANGUAGES KNOWN:** English, Hindi, Marathi

**HOBBIES:** Calisthenics/ Dance

**MARITAL STATUS:** Unmarried