

## CONTACT

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📍 Pune,Maharashtra

## SKILLS

- Python
- SQL, Numpy, Pandas
- Probability and Statistics
- Machine Learning
- Deep Learning
- Natural language processing
- Generative AI
- Neural networks
- Word Embedding
- ANN,CNN
- LLMs (Large language Models)
- RNN,LSTM
- Encoder-Decoder
- Transformers
- Transfer Learning
- Attention Mechanisms
- Data Visualization (Matplotlib, Seaborn,Plotly)
- LDA, text classification
- Data structure
- Web Scrapping (BeautifulSoup,requests,Scrapy)
- Databases-MySQL, MongoDB
- Web Framework-Flask
- Cloud computing-AWS, Azure
- Data Analytics
- Predictive modeling
- Agile methodology
- Project Management Tool-Jira
- Git and Github

# CHAITANYA VEDPATHAK

JR.DATA SCIENTIST | ML | DL | NLP

## PROFILE

Experienced Jr. Data Scientist with a track record of successfully applying Python, SQL, and machine learning techniques to extract actionable insights from complex datasets. My 1.5+ years of experience in this field have equipped me with the knowledge and skills necessary to drive data-driven decisions and deliver impactful results.

## WORK EXPERIENCE

### Jr. Data Scientist

Persistent Systems,Pune

NOV 2022 - PRESENT

- Conducted data analysis and interpretation to extract actionable insights for business strategies.
- Developed machine learning models using Python and scikit-learn for predictive analytics and decision-making.
- Collaborated with cross-functional teams to implement data-driven solutions and optimize processes.
- Participated in data collection, cleaning, and preprocessing to ensure data quality and accuracy.
- Contributed to projects such as Bank Customer Segmentation, E-Commerce product categorization.
- Worked on natural language processing (NLP) tasks such as text classification.
- Strong communication and interpersonal skills. Ability to interact with customers with ease and professionalism

## MACHINE LEARNING AND DATA SCIENCE

- **Python/ML Packages:** Pandas, Numpy, scipy, scikit-learn, Seaborn, matplotlib,RegEx.
- **Machine Learning:** Linear Regression, Ridge & Lasso Regression, SVM, Tree-Based models(DT, RF, AdaBoost, XGBoost), Linear Models, KNN, Naive Bayes, K-means Clustering, PCA.
- **Deep Learning:** Neural Networks, TensorFlow, Keras, PyTorch, ANN, CNN, Back Propagation, Activation & loss functions, Image classification
- **NLP:** NLTK, TF-IDF, BoW, Word2Vec, Word Embedding, NER, Sentiment analysis, gensim, textblob, langdetect, Keyphrase Extraction
- **Genrative AI:** RNN, LSTM, LLMs(Large language models), Encoder-Decoder, Attention mechanism, Transformers, Transfer Learning

## EDUCATION

BCS | 2023 | Shivaji University | 84%

HSC | 2020 | Shivaji University | 75%

SSC | 2018 | Shivaji University | 87%

## STRENGTHS

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- Superior Analytical and Problem Solving skills
- Excellent in project and team management
- Outstanding written and verbal communication skill
- Ready to accept challenges and Responsibilities

## PERSONAL DETAILS

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- DOB: 17/08/2002
- Marital Status: Unmarried
- Languages: English, Hindi, Marathi
- Hobbies: Playing Cricket,Swimming

## PROJECTS

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### **Project Name: Customer Segmentation and Product Recommendation using Machine Learning**

#### **Domain: Banking**

Developed and deployed a machine learning-based customer segmentation and product recommendation system for a banking client. Leveraged advanced clustering algorithms to group customers based on similarity and characteristics, enabling personalized recommendations of financial products

#### **Responsibilities:**

Conducted thorough data analysis and interpretation of customer data, including demographic information, transaction history, and behavior patterns, to extract actionable insights for strategic decision-making.

- Developed and implemented machine learning models using Python and scikit-learn, including but not limited to clustering algorithms (e.g., K-means, hierarchical clustering)

- Designed and deployed a scalable machine learning pipeline for customer segmentation and product recommendation, ensuring efficient data processing and model performance.

- Collaborated with stakeholders, including business analysts and domain experts, to understand customer behavior and financial product preferences.

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### **Project Name: Automated Product Categorization System for E- Commerce Platforms using NLP and Machine Learning**

#### **Domain: E-commerce**

Developed a machine learning model leveraging NLP techniques to automate the categorization of clothing products based on textual descriptions, optimizing efficiency and accuracy in product management processes.

#### **Responsibilities:**

Designed and developed a machine learning model using NLP techniques, such as word embeddings (e.g., Word2Vec, GloVe) and text classification algorithms (e.g., Naive Bayes, SVM), to automate the categorization of clothing products based on textual descriptions.

- Conducted data preprocessing tasks, including text cleaning, tokenization, stop word removal, and stemming/lemmatization, to prepare textual data for model training and improve classification accuracy.

- Engineered relevant features from textual data, such as n-grams, TF-IDF (Term Frequency-Inverse Document Frequency) to enhance the model's understanding of product descriptions.

- Evaluated model performance using metrics like precision, recall, F1-score, and accuracy