

AKASH MANDLIK

Data Scientist (AI/ML/DL/NLP)

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[Portfolio](#) | [Github](#) | [LinkedIn](#) | akashmandlik.ai@gmail.com

PROFESSIONAL SUMMARY

Experienced in PYTHON , AI , ML , DL , NLP , CV , SQL , NOSQL with 1+ year of expertise in developing and implementing data driven based systems to improve accuracy and skilled in analyzing and interpreting text data, researching and evaluating new NLP technologies, and collaborating with cross-functional teams to deliver innovative solutions. Seeking a challenging role in Data Science to apply technical abilities and contribute to a progressive organization.

CORE COMPETENCIES

- **Technical skills:** Python, Java, MySQL, Mongo DB, Tableau/Power BI, Git, Linux, GCP, etc.
- **Tools and Libraries:** Numpy, Pandas, Matplotlib, Seaborn, SciPy, Stats Models, SK-Learn, Tensor flow, Keras, OpenCV, NLTK, PyTorch, Beautifulsoop, Auto scraper, Transformers, Hugging Face.
- **Data Science Skills:** Machine Learning, Deep Learning, NLP, Computer Vision, Transfer Learning, LLM's, MLOps, Modular Coding, CI/CD etc.
- **Analytical Skills:** Descriptive & Predictive Analytics, EDA, Data Collection, Fetching from a variety of sources (like MySQL, Mongo DB, etc.), Mining, Cleaning, Wrangling, Normalization, Standardization, Feature Engineering, Visualization, Advanced Excel etc.
- **Machine Learning:** Supervised, Unsupervised, Regression, Classification, Clustering, Dimension Reduction, Time Series Analysis, Recommendation System.
- **NLP:** RNN, Tokenization, TFIDF, BOW, Word Embedding, LSTM, GRU, Transformers, NER, Text Extraction, Text Generation, Hugging Face, NLTK, Spacy, BERT, DISTILBERT.
- **Computer vision:** CNN, Object detection, YOLO, Image classification, GAN, image segmentation.
- **Frameworks:** Flask (WSGI), Django, Stream lit, Bootstrap.
- **Web Development:** Basics of HTML5, CSS3, JavaScript.
- **Platforms and Misc.:** Anaconda, Jupyter Notebook, Google Colab, Spyder IDE, Pycharm, Windows XP/ W10.
- **Soft Skills:** Critical Thinking, Problem Solving, Time Management, Team Collaboration, Attention to detail, Ethical Awareness, Good Communication Skills, etc.

WORK EXPERIENCE

Data Scientist

NETZWERK AI PVT. LTD.

Jan 2023 – present

Bangalore, India

Project: State wise stock market sentiment analysis using web scrapping

- The project focuses on the sentiments of people (customers) in different States, towards the stock market. Our client decides the contents for advertisements based on the sentiments type we give from our analysis methods.
- A large data is collected through web scraping via platforms like blogs, public websites, and social media comments few other sources using certain keywords like “stock_market_fraud” “stock_learning” etc. with profile location.
- The data is collected in .txt format. This data is cleaned & given as input to the Word Cloud algorithm. This model gives the respective region & its sentiment.
- The end result is a list of keywords that can be used for state-wise sentiment analysis of the stock market for social media marketing and advertisements educational qualifications.

Roles and Responsibilities:

- Extracting data using web scrapping, Combining keywords with the region & platforms.
- Collecting the data in the form of .txt file. Data cleaning process was done by using some basic NLP techniques.
- Working with Word Cloud algorithm to get the visual representation of the frequency of the keyword.

Python Developer Intern

AUGUST CODE INFOTECH PVT. LTD.

Jan 2023 – June 2023

Surat, India

- Design user-friendly website, including optimized check-out pages, resulting in a **25%** increase in user clicks and client's purchase.

PERSONAL PROJECTS

❖ Onsite Healthcare Diagnostic :- [Github](#)

- **Problem Statement:** The main aim of this project is to develop and merge all the **disease prediction models** in one website.
- **Tech Stack:** Python, Pandas, ML, DL, CNN, CI/CD, Flask, etc.
- **Outcome:** Built a multi model classification and regression model by using various **Deep learning techniques** such as ResNet50, Vgg16, Alex net, XGBoost.

❖ Reverse Image Search :- [Github](#)

- **Problem Statement:** Search the products on the portal by putting image of the product.
- **Tech Stack:** Python, CNN, OpenCV, Pattern Recognition, ResNet50, KNN, ML, Flask, AWS, etc.
- **Outcome:** Developed a search bar where users can search for desired items by uploading their own images. My **CNN and ML** models return 5 similar images as an output from a database that, I prepared for this project. The database consists of **45k** images representing various fashion collection items. The process involves the CNN model extracting features from the input image, which are then used by the ML model to find similar images.

❖ Dynamic AI Chabot :- [Github](#)

- **Problem Statement:** Developed an AI-powered Chabot with exceptional flexibility and robustness, enabling easy customization of its behavior to meet diverse requirements with minimal effort.
- **Tech Stack:** Python, Tensor flow, Keras, Bert, Cosine Similarity, NER, NLTK, Flask, etc.
- **Outcome:** Developed NLP models to enable the Chabot to understand and respond effectively to user queries.

❖ Text Suggestion Prototype :- [Github](#)

- **Problem Statement:** The main aim is to improve the accuracy of writing paragraphs. Developed NLP text suggestion prototype for autocomplete text. Successfully tested on Chrome search bar data.
- **Tech Stack:** Python, NLTK, Keras, Tensor flow, LSTM, etc.
- **Outcome:** The training data passes through the training pipeline, with each operation executed sequentially. The training pipeline builds a LSTM NLP model with 96%.

❖ Insurance Premium Prediction :- [Github](#)

- **Problem Statement:** Developed and deployed a machine learning model and achieved an **accuracy of 85%**, using techniques such as **Feature engineering, and hyper parameter tuning to optimize the model.**
- **Tech Stack:** Python, Pandas, EDA, MLOps, scikit-learn, ML, CNN, Flask, etc.
- **Outcome:** Improved premium accuracy, efficient decision-making, enhanced customer experience, and business growth for insurance companies.

EDUCATION

KK WAGH INSTITUTE, SAVITRIBAI PHULE PUNE UNIVERSITY

Nashik, MH.

Masters of Computer Applications (MCA)

Dec 2021 - Apr 2023

Major: Computer Applications **Grade:** 7.8/10

Relevant Coursework: Data Analysis, Machine Learning, Basic Deep Learning, Big Data, Cloud Computing, Web Development.

PCMCS INSTITUTE, SAVITRIBAI PHULE PUNE UNIVERSITY

Nashik, MH.

Bachelors of Computer Science (BCS)

Aug 2017 - Dec 2020

Major: Computer Science **Grade:** 6.2/10

Relevant Coursework: Computer Science, Statistics and Probability Theory, Application of Mathematical concepts in computer science.

ACHIEVEMENTS

- **Top 5%** ile in **Kaggle Competition.**
- **5 star** rating in **Hacker Rank** in Python.

CERTIFICATIONS AND AWARDS

- **NASSCOM & Future Skills** certified **Full Stack Data Science and AI** with **Gold Medal.**
- **Microsoft Certification** with **Advanced Data Science and AI.**
- **Full Stack Data Science & AI** Certification issued by **NareshI Technologies.**