

# Aaditya Pandagle

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## FULL-STACK DATA SCIENTIST

As a Full Stack Data Scientist with a focus on building efficient end-to-end solutions, I bring expertise in building full-stack applications, data analysis, and predictive modelling. My **GitHub** portfolio reflects a diverse range of projects, from AI-driven pipelines to responsive web designs. I thrive in dynamic environments where cross-functional collaboration and innovative problem-solving are key to success. Always eager to tackle new challenges and contribute to impactful solutions.

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## KEY COMPETENCIES

### Machine Learning & Deep Learning:

- **Supervised Learning:** Linear & Logistics Regression, SVM, Decision-Tree and Ensembles.
- **Unsupervised Learning:** K-Means, Hierarchical Clustering, and Dimensionality Reduction-PCA.
- **Neural Networks:** Artificial-NN, Convolutional-NN and Recurrent-NN, Natural Language Processing, and Deep Learning Frameworks (TensorFlow & Keras, PyTorch)

### Data Science:

- Data Analysis & Visualization, Statistical Analysis & Modeling, Feature Engineering & Optimization Techniques.

### Web Development, AI/MLOps and Programming Languages:

- ReactJS, RemixJS, TailwindCSS, Node, FastAPI, Django, and Vercel
- MLflow, Packaging application, Version Control (git), Docker, CI/CD Pipeline (Jenkins/Gitlab), Prometheus, and AWS.
- Python, Javascript, and SQL

### Auxillary Skills:

- Linux OS, RemixJS, Packaging and Containerization, Version Control (git), and CI/CD
  - Large Language Model integration (Gemini, LLama, or Mixtral), Collaboration and Adaptability, Problem-solving and Inquisitive
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## WORK EXPERIENCE

### NSArrows Innovations - Data Science Intern - Pune, Hinjawadi

2nd July 2024 - 28th September 2024

- Developed a robust API service (via FastAPI) with a user-friendly frontend (HTML and CSS) to efficiently extract, clean, and structure data from large PDF files. The processed data is stored in a NoSQL database (MongoDB), adhering to client specifications.
  - Developed a robust Python pipeline that converts videos to audio, transcribes the audio into text, adapts or translates the text as required, and synthesizes the translated content back into the user's voice, based on an input sample.
  - Created a recommendation system utilizing a vector database (MongoDB/Milvus) to perform semantic search and identify similar content effectively.
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## WORK AND PROJECTS

### Machine Learning and Deep Learning:

- **Fraud Detection:** Identify fraudulent activities within financial transactions using ML algorithms on authentic datasets.
- **Credit Risk Assessment:** Assessing credit risk for loan applicants using predictive modelling.
- **House Rent Prediction:** Using machine learning algorithms to predict house rent prices in India.
- **Customer Discount Offering:** Predict which customers will likely receive discounts for targeted marketing.
- **American Sign Language Detection:** Developed a model to recognize and interpret American Sign Language gestures for communication accessibility.
- **MLOps Sandbox:** MLOps Integration Testing (Docker, Jenkins, CI/CD)

### Generative-AI:

- **OCR-Gemini:** Leveraged Tesseract for invoice text extraction and Gemini for data structuring the extracted data into JSON format.
- **Resume-JD Analyzer:** Implementing data extraction methods to input data into LLama3, facilitating analysis of both job descriptions (JD) and resumes.
- **Query-Builder:** Utilizing PostgreSQL as the database backend, extracting key content, and seamlessly integrating it into LLama3 for query generation and execution.

### Web Development:

- **WordSmith:** Building a blog website using RemixJS, Tailwind CSS, and Next UI that leverages AI, allowing users to post their blogs or generate AI-driven content.
- **Generative AI:** Building an AI app with Next-UI, RemixJS, and ReactJS. Starting with resume analysis, and then expanding to other generative AI tasks.
- **Django:** Utilized Django to create a web-based (non-responsive) diabetes prediction model.
- **Portfolio Website** (deprecated): Developed a portfolio website using HTML, CSS, JavaScript, and Tailwind CSS.

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## EDUCATION

- **Post-Graduation Program in Data Science and Analytics** - Imarticus Learning (Pune) (2023 - 2024) (**TIER-2**)
- **Bachelor's in Business Administration (Computer Application)** Modern College of Commerce & Computer Studies; Savitribai Phule Pune University Affiliated. (2020 - 2023) CGPA - **8.61**
- **Senior Secondary School** - PDEA's Shri Mhalsakant Vidyalaya & Jr. College. (2018 - 2020) - **55.69%**
- **High School** - S.P.M English Medium School, Nigdi-Pune. (2007 - 2018) - **69.00%**

## CERTIFICATIONS AND ACHIEVEMENTS

- **Udemy**: Python for Data Science and Machine Learning Bootcamp
- **Kaggle** - **Beginner** and **Intermediate** Machine Learning
- **HackerRank** - SQL **Basic** and **Intermediate**
- **Udemy**: Python Data Structures and Algorithm
- **Udemy**: Amazon Web Services - Solution Architect.
- Ranked 1st in chess competitions during both the 2nd and 3rd years of my academic journey.

## LANGUAGES

- English, Hindi and Marathi (Native), German and Japanese (Novice)
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