Aditya Ryaka

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EDUCATION

- **Dwarkadas J. Sanghvi College of Engineering** — Mumbai, India
  Bachelor of Technology - Artificial Intelligence and Machine Learning; CGPA: 7.8 — *May 2021 - May 2025*
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

- **Shri T P Bhatia Junior college of Science** — Mumbai, India
  Intermediate (HSC); Percentage: 94.8 — *May 2019 - May 2021*
  Courses: *Physics, Chemistry , Mathematics, Electrical Maintainance*

- **Oxford Public School** — Mumbai, India
  Matriculation (SSC); Percentage: 97.2 — *May 2005 - May 2019*
  Courses: *Sanskrit, Marathi, Biology , Chemistry , Physics, English, Math, Social Sciences, Sports*

SKILLS SUMMARY

- **Languages**: Python, C, JavaScript, SQL, JAVA
- **Frameworks**: Scikit, NLTK, SpaCy, TensorFlow, Keras, PyToch, Flask, NodeJS, React, OpenCV
- **Tools**: Kubernetes, Docker, GIT, MongoDB, MySQL
- **Platforms**: Linux, Windows, AWS
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Crisis Management

INTERNSHIPS

- **Indian Development Foundation** — On-site
  Summer Intern (Full-time) — *June 2024 - Aug 2024*
  - Analyzed financial data and maintained accurate databases to support strategic decisions.
  - Organized and distributed school kits to children from underprivileged backgrounds.
  - Automated few repeatable processes using python scripts thereby improving productivity.
  - Data-driven distribution, awareness campaigns, and automated office systems.

- **Suvidha Foundation** — Remote
  Machine Learning Intern (Full-Time) — *Dec 2023 - Jan 2024*
  - Working with pointer-generator networks to implement abstractive and extractive summarization.
  - Database management & primary source data collection.
  - Preprocessed over 900 data entries critical for machine learning model training.

PROJECTS

- **Math Problem Solver - LLM based tool for solving word problems (Work in progress)**: Fine tuning LLM's for grade school math problem solving. Tech: Python, Transformers, Numpy, Pandas (May '24)

- **Waste Management - Developing a system of systems for waste management.(Collaboration with EXTC)**: Tweaking VGG-16 to classify waste into 'DRY' and 'WET' categories then generating a CTA for the servo. Tech: Python, Transformers, Numpy, Pandas (April '24)

- **Krishi Sevak - ML integrated Web Application (With login functionality)**: Advanced tools and insights to optimize yield. Offers features like crop scheduler , crop recommender using ML, real time weather updates enhacing overall success rate of the crop. Tech: Python, Flask, Tensorflow, XGBoost, Keras, HTML/CSS (March '24)

- **Submarine detection - Rock vs Mine (Exploring different classification techniques)**: Comparing accuracy and precision of different classification techniques including random forest, logistic regression, XGboost,neural network etc. using bar charts. Tech: Python, Tensorflow, keras, scikit-learn, numpy , pandas. (December '23)

- **Zomato Geodata Analysis(Visualizing Zomato data using Geo Spatial Libraries.)**: Mapping Zomato restaurants along with the type of cuisines on a map and analysing data features such as sales, orders, ratings. Tech: GeoPandas, Folium, Numpy, Pandas, OpenStreetMaps, Matplotlib (October '23)

- **Wine Recommender System (Recommeder system with login functionality)**: Using Flask developing a website which uses a KNN based recommender system to recommend good quality wines to users. Tech: Html/CSS, scikit-learn, Flask, Javascript, K-nearest neighbours, Numpy, Pandas, (September '23)

ACHIEVEMENTS

- Received letter of recommendation at Indian Development Foundation
- MHT-CET (98.71 percentile)

VOLUNTEER EXPERIENCE

- **Association for Computing Machinery** — Logistics Committee
  Organized events and 24 hour hackathons, logistical planning & management — *Jan 2022 - Jan 2023*

- **LITSOC** — Marketing Committee
  Secured 20% sponsorships of the total pool, communication skills, fostering team building. — *Jan 2022 - Jan 2023*