

# Swaroop Atreya

Remote, Pune, India

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## SUMMARY

Proactive and detail-oriented AI & ML Engineer with hands-on experience in Python programming and expertise in machine learning. Skilled in data preparation, model development, and performance evaluation. Familiar with Machine Learning Frameworks, with knowledge on LLM'S and Generative AI.

## SKILLS

Python, Machine Learning Frameworks, Data Science, Data analysis, Statistical modelling, Natural Language Processing(NLP), Generative AI, Exploratory Data Analysis, Flexible, Multi-tasking, Communicative

## WORK EXPERIENCE

### Herbs Magic

Data Science Intern

Oct 2024 - Dec 2024

Remote, Pune, India

- Worked on training a deep learning model to process complex data sets and creating a large custom dataset.
- Developed a CNN machine learning model to improve the accuracy of the company's previous business model by 15%.
- Applied statistical modelling, machine learning, NLP, and other quantitative techniques to solve business problems.

### VOIS & AICTE

Data Analytics Intern

Oct 2024 - Nov 2024

Remote, Pune, India

- Performed Exploratory Data Analysis to discover trends and relationships.
- Performed data and statistical modeling with preprocessing using Pandas and NumPy to achieve desired outputs.
- Worked on projects such as Agriculture Attrition analysis and Superstore analysis using python.

## PROJECTS

### Skin Type Classification using Python(Herbs Magic)

Data Science Intern

Oct 2024 - Dec 2024

Pune, India

- Developed a machine learning model to classify facial images into two categories: dry skin and oily skin, achieving 80% accuracy.
- Utilized transfer learning with a pre-trained VGG16 model for feature extraction, leveraging the ImageNet dataset to enhance model performance on limited data.
- Fine-tuned the model by unfreezing specific layers of VGG16 and optimizing hyperparameters to achieve high validation accuracy.

### AI-Powered Tabular Data Querying System(Infineon Technologies Hackathon)

iHack 2025 by Infineon Technologies

Feb 2025 - Feb 2025

Pune, India

- Uses Google Gemini's AI API to convert natural language questions into Pandas commands.
- Executes AI-generated commands on tabular data to extract relevant insights, Identifies and highlights relevant rows and columns based on the query using Fuzzy Matching.
- Reads queries from an Excel file, processes them, and updates the file with answers and relevant indices, Detects and reports errors in command execution, ensuring robust data retrieval.

### NexusBot

AI & ML Engineer

Dec 2024 - Jan 2025

Pune

- Utilized Google Gemini's natural language processing (NLP) to handle diverse user queries with contextual understanding and dynamic responses.
- Features intelligent web search capabilities, real-time image/file analysis using Generative AI vision models, and an innovative user analytics dashboard for performance tracking.

## EXTRACURRICULARS

### Infineon Technologies

3rd Place at iHack- TabuQuest Hackathon

Feb 2025 - Feb 2025

VIIIT, PUNE

## EDUCATION

Vishwakarma Institute of Technology

Nov 2022 - Jun 2026

GPA: 8.26