

Ankit Vaghasiya

M.Sc. Physics (Astrophysics)

Address: Grindelallee 76, 20146 Hamburg
Birthdate: 29.04.1995
Phone: (+49)-176 476 15456
Email: ankit.d.vaghasiya@gmail.com
Website: ankitvaghasiya.com



Professional Experience

Fullstack Developer (part-time)

08/2023 – Present

Thodor Health [\[1\]](#) | Hamburg, Germany

- Lead a team in India to collect and curate heartbeat audio data for AI-based murmur detection, ensuring weekly progress tracking and data quality.
- Collaborated with Indian hospitals to acquire echocardiogram and ECG data, facilitating the development of a comprehensive cardiac dataset.
- Designed and developed a React.js-based labeling studio for annotating medical data, integrating it with the company's Go-lang backend.
- Contributed to backend development in Go, focusing on seamless integration with AI models and data pipelines.

Technologies: React.js, JavaScript, Go, Python, REST API, Git, AWS S3, Agile, ML, Slack, notion

Software Developer (part-time)

08/2023 – Present

Contra [\[2\]](#) | Hamburg, Germany

- Developed semantic segmentation algorithm for aerial images in MATLAB with Python integration
- Took charge of Server Administration for the High-Performance Computing Cluster
- Independent redesign and build company's website
- Expanding skill set by transitioning our backend infrastructure to cloud-based services, ensuring scalability and reliability
- Actively developing web applications with React, facilitating rapid and efficient deployment of solutions

Technologies: Python, MATLAB, TensorFlow, Keras, Pytorch, OpenCV, Reactjs, JavaScript, TypeScript, HTML, git, Node.js, RestAPI

Co-Founder – KundliGPT.com [\[2\]](#)

04/2023 – Present

- KundliGPT is a SaaS in direction of Generative AI
- Scraped Indian Astrology data from web, did cleaning, and post processing
- Designed and developed a robust pipeline to streamline data structuring, ensuring compatibility with LLMs (OpenAI) for Fine-tuning
- Help to develop and deploy on web

Technologies: Python, Pytorch, BeautifulSoup, Transformers, PostgreSQL, Vue.js, JavaScript, HTML

Research Assistant (part-time)

05/2022 – 8/2022

Helmut-Schmidt-Universität (LTS) | Hamburg, Germany

- Synchronization of Google Sheet-based Gantt chart with email and Calendar
- Developed the production protocols for n2 Photonics
- The Optical Assembly, The Alignment and Testing and The Assembly of the Modules
- *Technologies: Google Spreadsheet, Google script editor*

Lecturer (full-time)

11/2017 – 08/2019

SSASIT | Surat, India

- Instructed engineering physics courses at an engineering college, emphasizing the practical application of fundamental principles
- Conducted engaging lectures and hands-on laboratory sessions to cultivate a strong foundation in physics.
- Organized lecture series and seminars for new students

Education

M.Sc. in Physics (Astrophysics)

10/2019 – 2024

Universität Hamburg | Hamburg, Germany

Relevant Coursework: Computational Astrophysics, Galaxy Evolution, Interstellar Medium and Star Formation, Multimessenger Astronomy

M.Sc. in Physics (Condensed Matter Physics)

07/2015 – 05/2017

Sardar Patel University, Vallabh Vidyanagar | Gujarat, India

Relevant Coursework: Quantum Mechanics II, Crystal Growth and imperfections in solids, Crystallography and Materials Science, Non-Linear Dynamics.

Master Project: Spectral Analysis using RSpec (Real-time Spectroscopy)

B.Sc. (Physics)

05/2012 – 05/2015

Sir P.T. Sarvajani College of Science | Gujarat, India

Relevant Coursework: Quantum Mechanics I, Classical Physics, Thermodynamics & Statistical Physics, Thermodynamics, C++, Electronics, Mathematical Physics, LASER Physics.

Skills

Programming: Python, HTML, CSS, JavaScript, Go, Typescript,

ML/DL Tools: PyTorch, Transformers, Tensorflow, Keras, Scikit-learn, Open-CV, Matplotlib, Numpy

Database: SQL(PostgreSQL), NoSQL, PostGIS

DevOps: Git (CI/CD), Docker, Kubernetes

Other: React.js, Vue.js, Node.js, RestAPI, Flask, GCP, Azure

Languages

English: Fluent (C2), German: Working Proficiency (B2), Hindi, Gujarati: Native

Hobbys

Cooking, Cycling, Table Tennis, Hamburg City guide

01.09.2024, Hamburg



References:

[1] <https://theodorhealth.com/>

[2] <https://www.contra-infra.com/>

[3] <https://kundligpt.com/>