

Contact

Phone (+31) 687353503

Email abhishek.r.satyanarayana.4@gmail.com

Location Groningen, The Netherlands (willing to relocate)

Profiles

https://github.com/AbhishekRS4/

https://huggingface.co/abhishekrs4

https://abhishekrs4.github.io/

https://linkedin.com/in/abhishek-r-s/

Core Skills

- Programming
- Continuous Integration /
 Continuous Deployment
- Machine Learning
- Deep Learning
- Computer Vision
- Data Pipeline and ETL
- MLOps
- Model Evaluation
- Containerization and Model
 Deployment
- Data Science
- Natural Language Processing

Awards

- One of the best student project awards in NLP course - University of Groningen
- Solving the most valuable problem award Dutch Summer of Al
- Second best performer student project award in Introduction to Data Science course - University of Groningen

"Abhishek" Ramanathapura Satyanarayana

About Me

I am a graduate Artificial Intelligence (AI) Engineer from the University of Groningen. I am a motivated, talented, hardworking, and fast-learning professional. I am interested in a role in the field of AI with a long-term goal of contributing towards improving the various aspects of human lives and the environment through continuous development and deployment of AI applications that can have a significant impact on the real world.

Education

O Sep 2021 - Oct 2023

M.Sc. in Artificial Intelligence

University of Groningen, Groningen, The Netherlands

- **Thesis**: For my Al Master's thesis I worked on a research project titled **Enhancing depth estimation for Transparent objects**. In this research, we proposed a novel encoder-decoder architecture that outperformed the state-of-the-art method.
- **Relevant Courses**: Machine Learning, Deep Learning, Pattern Recognition, Handwriting Recognition, Cognitive Robotics, Robotics for AI, Computer Vision, Natural Language Processing, Deep Reinforcement Learning, Intro to Data Science.
- Grade: GPA: 8.3/10, Thesis: 8.5/10

O Nov 2021 - Jun 2023

Honours Master's in High Tech Systems and Materials (HTSM)

University of Groningen, Groningen, The Netherlands

- Masterwork: For my HTSM Masterwork, I worked on a research project titled Oil Spill Segmentation using Deep Encoder-Decoder models. In this project, we developed and evaluated the performance of popular deep encoder-decoder models for the oil spill segmentation task. The best-performing model has also been deployed to HuggingFace.
- Grade: GPA: 7.9/10, Masterwork: 9/10
- O July 2012 May 2016

B.Tech. in Information Technology

National Institute of Technology Karnataka [NITK], Surathkal, Mangaluru, India

• Grade: CGPA: 8.3/10

Experience

O May 2023 - Jun 2023

Teaching Assistant (Part-time)

Faculty of Science and Engineering (FSE), University of Groningen

- **Responsibilities**: I worked as a TA for Handwriting Recognition course during which I monitored the weekly lab sessions, mentored some teams regarding their progress in the course project and graded the course projects.
- Skills: Teamwork, Teaching, Time management, Communication, Python.

O Feb 2023 - Apr 2023

Teaching Assistant (Part-time)

Faculty of Science and Engineering (FSE), University of Groningen

- **Responsibilities**: I worked as a TA for Deep Learning and Computer Vision courses. I monitored the weekly lab sessions and graded assignments for both courses. I also invigilated the exam for the Deep Learning course.
- Skills: Teamwork, Teaching, Time management, Communication, Python, Matlab.

Tech Skills

• Programming Languages

- Python
- C++
- C • Matlab

Version Control (CI / CD)

- Git
- GitHub
- GitLab

• Frameworks

- Numpy
- Pandas
- Scipy
- Scikit
- Matplotlib
- PyTorch
- TensorFLow
- OpenCV
- Streamlit
- FastAPI
- Flask

• Miscellaneous Tech

- Linux
- Docker
- Kubernetes
- MLFlow
- Weights and Biases
- HuggingFace
- TensorRT
- Microsoft Azure
- AWS
- Prefect
- SQL
- MySQL

Languages

- English (professional)
- Dutch (beginner)
- Kannada (native)
- Hindi (professional)

Soft Skills

- Teamwork
- Time management
- Communication
- Leadership
- Presentation
- Teaching

Hobbies

- Badminton
- Chess
- Watching technology videos
- Listening to music
- Going for walks

O Sep 2022 - Nov 2022

Teaching Assistant (Part-time)

Faculty of Science and Engineering (FSE), University of Groningen

- **Responsibilities**: I worked as a TA for Cognitive Robotics and Introduction to Data Science courses during which I monitored the weekly lab sessions and graded assignments for both courses. I graded the course projects for the Cognitive Robotics course. For the Introduction to Data Science course, I invigilated the course exam, gave a presentation to the students on using Git and GitLab for course assignments, and maintained the GitLab assignment repositories for the teams.
- **Skills**: Teamwork, Teaching, Time management, Leadership, Communication, Presentation, Python, Git, GitLab.

O Jul 2022 - Aug 2022

Summer Al Intern

Tata Steel in Europe, IJmuiden, The Netherlands

- **Responsibilities**: I took part in this summer internship as a part of the Dutch Summer of AI, edition 2022. I worked on supervised and unsupervised deep learning methods to classify and cluster images with steel surface defects. For the unsupervised task, I worked on a model as a proof of concept. For the supervised steel surface defect classification task, I worked on developing a production-ready AI model that achieved 92% accuracy. When deployed, this model would save at least 500K Euros annually for Tata Steel. Our team won the award for **Solving the Most Valuable Problem**.
- Skills: Teamwork, Time management, Communication, Presentation, Python, GitLab, Microsoft Azure, MLFlow.

O Jun 2022 - Jul 2022

Teaching Assistant (Part-time)

University Medical Center Groningen (UMCG), University of Groningen

- **Responsibilities**: I worked as a TA for the Summer School Data Science and AI in Health. I was responsible for making sure that the assignment notebooks did not have any issues. I monitored and helped the students during the summer school.
- Skills: Communication, Leadership, Time management, Python, Jupyter.

O Nov 2021 - Jul 2022

Internship (Part-time)

Philips Consumer Lifestyle B.V., Drachten, The Netherlands

- **Responsibilities**: For this internship, I worked as a part of an Honours Master's in HTSM. I was in a team in which we worked on a **report outlining different ways of developing a sustainable shaver by reducing the carbon footprint of one of the Philips shaver models**. We presented the top 5 ways of reducing the carbon footprint of the shaver. When some of our proposals are implemented, the carbon footprint of the shaver can be reduced by 16.6% to 35% depending on the choice.
- Skills: Teamwork, Time management, Communication, Presentation.

O Sep 2017 - Jun 2021

Research Associate (Machine Learning) in Autonomy

Ati Motors, Bengaluru, India

- **Responsibilities**: I worked mostly on research, prototyping, development, and deployment of Machine Learning, Deep Learning, Computer Vision, Robot Perception, and miscellaneous Algorithm solutions for autonomous cargo vehicles. In the learning algorithms, I worked mostly on object classification, object detection, and semantic segmentation in 2D images; and semantic segmentation in 3D LiDAR point cloud data. I also worked on benchmarking various ML models on multiple target hardware devices such as Nvidia's GPUs, Intel Movidius stick, and Nvidia Xavier embedded development board. I also worked on the development, deployment, and testing of LiDAR and camera sensor drivers, and raw and derived sensor data pipelines. I was also actively involved in support operations such as showcasing more than 15 demos at potential customer sites and successful deployment activities at 3 customer sites.
- **Skills**: Communication, Teamwork, Time management, Leadership, Linux, Docker, Git, GitHub, Python, Jupyter, Streamlit, Flask, PyTorch, TensorFlow, TensorRT, Pandas, Scikit-learn, Scipy, OpenCV, C++, C.