Abhishek Ramanathapura Satyanarayana

Groningen, the Netherlands

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RESEARCH INTERESTS

 Machine Learning, Computer Vision, Robot Perception, Artificial Intelligence, Mobile Robot Systems.

EDUCATION

University of Groningen [RUG]

Groningen, the Netherlands

M.Sc. in Artificial Intelligence

Sep 2021 - present

National Institute of Technology Karnataka [NITK]

Surathkal, Mangaluru, India

B. Tech. in Information Technology, CGPA: 8.3/10

Jul 2012 - May 2016

EXPERIENCE

Ati Motors

Bengaluru, India Sep 2017 - Jun 2021

Research Associate in Autonomy

- Machine learning: Worked on research, prototype, development, and deployment of Machine Learning, Deep Learning, Computer Vision, Robot Perception, and Algorithm solutions for autonomous cargo vehicles. This involved using the LiDAR and camera data for developing various ML pipelines with a focus on object classification in 2D images, object detection in 2D images, semantic segmentation in 2D images, and semantic segmentation in 3D LiDAR point cloud data.
- Sensor drivers: Active involvement in prototype, development, deployment, and testing of various LiDAR and camera sensor drivers.
- Data pipelines: Active involvement in development, deployment, and testing of various raw and derived sensor data pipelines.
- **Testing**: Active involvement in testing various algorithm pipelines on prototype and production vehicles.
- **Demos and deployment**: Active involvement in multiple potential customer demos and successful customer deployment activities. This includes Ati's successful first and further customer deployments.

Freelancer
Bengaluru, India
Freelancer
Jan 2017 - Jun 2017

• Data science and data analysis: Worked as a freelancer on a few projects.

Indian Institute of Science

Bengaluru, India

Project Assistant Intern at HPC Lab in SERC

Jun 2016 - Dec 2016

- o Professor guide: Prof. R Govindarajan
- Parallel programming: Worked on implementation and benchmarking of data parallel algorithms to achieve high performance on hardware accelerators using APIs CUDA C, OpenCL, OpenMP.

J P Morgan Chase

Mumbai, India

Technology Analyst Intern in Investment Banking

May 2015 - July 2015

o Data analysis: Worked on data analysis of real-time transaction data.

PROFILES

- Linkedin: https://www.linkedin.com/in/abhishek-ramanathapura-satyanarayana-862608a0/
- Github: https://github.com/AbhishekRS4/
- Kaggle: https://www.kaggle.com/abhishekrs4/

Programming languages and Tech skills

- Programming languages: Python, C, C++, Java, Matlab
- Database: SQLite, MySQL
- Version control: Git

Self Learning Courses

- Machine Learning, Coursera (Certification)
- Mathematics for Machine Learning Specialization, Coursera (Certification)
- Deep Learning Specialization, Coursera (Certification)
- Applied Data Science Specialization, Coursera (Certification)
- Python for Everybody Specialization, Coursera (Certification)
- Robotics Perception, Coursera (Certification)
- An Intuitive Introduction to Probability, Coursera (Certification)
- Data Science Math Skills, Coursera (Certification)
- Fibonacci Numbers and Golden Ration, Coursera (Certification)
- Parallel Programming and Optimization for Intel Architectures, Colfax Research (Certification)
- Course Certificates https://drive.google.com/drive/folders/0Byk-dMy2pBxeX21IbmRlWFExNFk?usp=sharing

NOTABLE AWARDS AND ACHIEVEMENTS

•	All India Engineering Entrance Examination [now replaced by JEE mains] Secured a national rank of 6279 among 12000000 candidates	India 2011-2012
•	Karnataka Common Entrance Test [KCET] for Engineering Secured a state rank of 404 among 80000 candidates	India <i>2011-2012</i>
•	Pre-university Science quiz 3 rd prize in science quiz	India <i>2011-2012</i>
•	Annual high school awards 3 rd best outgoing student award	India 2009-2010
•	Bharath ko jano (translation: Know about India) 2 nd prize in inter high school quiz competition conducted by Bharath Vikas Parishad	India 2009-2010

•	Annual high school quiz competition 2^{nd} prize	India 2009-2010	
•	Annual high school quiz competition 1^{st} $prize$	India 2008-2009	
•	National Science Olympiad 1 st prize for my high school	India 2007-2008	
•	Chess competitions in School Various prizes in primary and high school including 3 first and 2 runner-up prizes	India 2005-2010	
•	All India General Knowledge by Center for Human Resource Development Completion of CHRD general knowledge competition with distinction	India 2005-2006	
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EXTRA CURRICULAR ACTIVITIES

EXTRA CORRIGORAL MOTIVITIES		
• IMTEX FORMING 2020 held at BIEC Represented Ati Motors (as standby)	Bengaluru, India Jan 2020	
• Poster session held at Indian Institute of Science Represented Ati Motors	Bengaluru, India $Jul\ 2019$	
ullet Incident-16 (cultural festival of NITK) Team member that conducted the Gaming events of Incident-16	Surathkal, Mangaluru, India $Mar\ 2016$	
• TECHeshi's castle at NITK IEEE tech festival Team member that conducted the event	Surathkal, Mangaluru, India Dec 2012 - Jan 2013	
• Bengaluru district level science exhibition Presented on water conservation using rain water harvesting	Bengaluru, India 2007-2008	
$ullet$ Bala Janagraha Civic learning programme $Completed \ the \ civic \ learning \ programme \ in \ high \ school$	Bengaluru, India 2007-2008	

REFERENCES

• Dr. Geetha V

Assistant Professor

Department of Information Technology

National Institute of Technology Karnataka, India

Email: geethav@nitk.edu.in

Website: https://infotech.nitk.ac.in/faculty/geetha-v

• Dr. Jaidhar C D

Associate Professor

Department of Information Technology

National Institute of Technology Karnataka, India

Email: jaidharcd@nitk.edu.in

Website: https://infotech.nitk.ac.in/faculty/jaidhar-c-d