

Vivek ROY

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EDUCATION

2015–19	Jadavpur University Bachelor's degree (B.E.) in Computer Science & Engineering CGPA: 8.56/10.0	Kolkata, India
2013–15	D.A.V Model School Senior Secondary Education (Class 12) Marks: 93.6%	Durgapur, India
2002–13	St. Xavier's School Secondary Education (Class 10) Marks: 94%	Durgapur, India

INTERNSHIPS

Jun '18 – Aug '18	Carnegie Mellon University, RISS 2018 Guided by Dr. Martial Hebert Visual Object Tracking using Optical Flow as input to a CNN.	Pittsburgh, PA, USA
Jun '17 – Aug '17	Student Developer, Google Summer of Code 2017 GSoC 2017 under Haiku Inc. 3D Hardware accelerated graphics drivers for Haiku OS.	GSoC 2017

RESEARCH

Sep '18 – Present	Image Captioning Guided by Dr. Sanjoy Kumar Saha Automatic generation of image captions. Work in progress. Experimenting with Generative Adversarial Networks and Capsule Networks.	Jadavpur Univ., Kolkata, India
Nov '17 – Aug '18	Visual Odometry using Deep learning Guided by Dr. Sanjoy Kumar Saha Feature point selection using Deep learning combined with geometrical tracking for real-time performance. To be deployed on an autonomous robot developed by Jadavpur University.	Jadavpur Univ., Kolkata, India
Apr '17 – Jan '18	Policy non-compliance detection from log records Guided by Prof. Chandan Mazumdar Funded by Defence Research and Development Organisation (DRDO), Govt. of India. Natural Language Processing of log records and policies to detect non-compliance and report security vulnerabilities. Deployed in DRDO log servers for offline log record analysis.	DRDO New Delhi, India

ACHIEVEMENTS & AWARDS

- 2013 **National Talent Search Examination Scholarship** winner for exceptional knowledge in the fields of Science and Social Science, awarded by NCERT, CBSE, Govt. of India.
- 2012–14 Cleared **Regional Mathematics Olympiad** and shortlisted for **Indian National Mathematics Olympiad** 3 years in a row. (Top 200 among 20,000 students).
- 2014 Cleared **Zonal Informatics Olympiad** and shortlisted for **Indian Computing Olympiad** (Top 100 among 10,000 students).

POSITIONS of RESPONSIBILITY

- 2016–Present **Student Convener, CodeClub, Jadavpur University**, a club dedicated to teaching competitive programming.
- 2016–Present **Volunteer, Science club, Jadavpur University**. Teaching basic math and science to under-privileged children.
- 2016–Present **Mentor, JontroTontro (annual robotics event), Jadavpur University**. Organising workshops on robotics, computer vision and image processing. Mentoring freshmen year teams for robotics competition.

SKILLS

Languages

- Python
- C++
- C
- Rust
- Java
- Javascript
- Shell
- MATLAB

Tools & Libraries

- OpenCV
- Qt
- Latex
- CMake
- Android

DL Frameworks

- Tensorflow
- PyTorch
- Keras

Databases

- MySQL
- MongoDB

Web Backend

- Go
- NodeJS
- Django (Python)

Web Frontend

- ReactJS
- VueJS