Vivek ROY

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EDUCATION

2015–19	**Jadavpur University**	Kolkata, India

Bachelor's degree (B.E.) in Computer Science & Engineering
CGPA: 8.6/10.0

2013–15	**D.A.V Model School**	Durgapur, India

Senior Secondary Education (Class 12)
Marks: 93.6%

2002–13	**St. Xavier's School**	Durgapur, India

Secondary Education (Class 10)
Marks: 94%

INTERNSHIPS

Jun '18 – Aug '18	**Carnegie Mellon University, RISS 2018**	Pittsburgh, PA, USA

Guided by Dr. Martial Hebert
Visual Object Tracking using Optical Flow as input to a CNN.

Jun '17 – Aug '17	**Student Developer, Google Summer of Code 2017**	GSoC 2017

GSoC 2017 under Haiku Inc.
3D Hardware accelerated graphics drivers for Haiku OS.

RESEARCH

Sep '18 – Present	**Image Captioning**	Jadavpur Univ., Kolkata, India

Guided by Dr. Sanjoy Kumar Saha
Automatic generation of image captions. Work in progress. Experimenting with Generative Adversarial Networks and Capsule Networks.

Nov '17 – Aug '18	**Visual Odometry using Deep learning**	Jadavpur Univ., Kolkata, India

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.

Apr '17 – Jan '18	**Policy non-compliance detection from log records**	DRDO New Delhi, India

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.

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