VISHAL PANI

@ panivishal17@gmail.com   📞 +91 79908 26365   📍 Prayagraj, India   in vishal-pani-313888159   ⚪ pani-vishal

EDUCATION

B.Tech (Hons) - Information Technology

Indian Institute of Information Technology, Allahabad

📅 July 2017 – Present   📍 Prayagraj, India

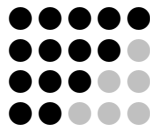- CGPA: **9.31** (till 6th Semester)

Secondary and Senior Secondary School

Anandalaya, Anand

📅 Mar 2014 – Mar 2017   📍 Anand, India

- Class XII Percentage: **93.20**% (C.B.S.E)
- Class X CGPA: **10.00** (C.B.S.E)

TECHNICAL SKILLS

Python, Pytorch
fastai, Jupyter Notebook
HTML, CSS, Keras, C/C++
LaTex, Git, Tensorflow

WORK EXPERIENCE

Research Intern

University of Stuttgart

📅 May 2020 – July 2020   ⚪ *[Code not yet public]*

- Summer research internship with Dr. Norbert Haala.
- Developed data preparation and deep learning pipeline for Semantic Image Segmentation of City Meshes using 2D Projections of the 3D Meshes.
- Data preparation pipeline uses ray casting to generate 2D projection from the 3D city meshes.
- The entire data preparation pipeline is optimized using parralel processing.
- Deep Learning pipeline contains suite of semantic segmentation models like U-Net, DeeplabV3+, etc. It also contains implementations of various weighted loss functions, optimizers, and lr schedulers.

Research Intern

ISI Kolkata

📅 May 2019 – July 2019   ⚪ gan_stabilization

- Summer research internship with Prof. Nikhil R. Pal.
- Developed stabilization techniques for the training of Generative Adversarial Networks.
- Added regularizing factor to the cost function of a GAN.

Coordinator Artificial Intelligence Wing

GeekHaven, IIIT Allahabad

📅 Apr 2019 – Apr 2020

- In charge of conducting workshops and talks in the field of Artificial Intelligence.

PROJECTS

Cross-Domain Localization ⚪

📅 January 2020 - Present

- Semester project under the supervision of **Dr. Rahul Kala**.
- Aim is to use Cross-Domain images and compare them against a day map to localize an autonomous car or robot.
- A custom CNN model is used compare Day and Other images to return a similarity score between them. Localization is improved using local and global level searches.

Manga Colourizer ⚪

📅 September 2020 - Present

- Aim is colourize b/w manga pages (Japanese Comics).
- Involves extracting panels, producing weak predictions through a U-Net then using colour propagation.

Learn.ai ⚪

Hack36 (Top 10) (Team of 4), NIT Allahabad

📅 February 2020

- Application that uses 'no code' approach to build ML models using a drag and drop interface.
- Responsible for automatically generating Tensorflow.js code for the ML model.

ACHIEVEMENTS

- Recipient of **Aruna Lal Scholarship**, Physics Research Lab, Gujarat (2016).
- Cleared **National Talent Search Examination (Stage 1)**, 6th rank in state (2015).

EXTRA-CURRICULAR

Sports

Football

- Participated in **CBSE National Football Championship**, Gujarat (2014).

National Cadet Corps

Combined Annual Training Camp, Gujarat (2014)

- **Best Cadet** and **Best Shooter** in CATC.

Hack in the North

Lead Organizer

- Lead organizer of Hack in the North 5.
- Acclaimed as India's largest student-held hackathon