






Sudipto Ghosh







EMAIL: gs.ghoshsudipto@gmail.com
PHONE: +91 90738 44396
WEBSITE: sudipto-g.netlify.app 
LOCATION: Pune, India


EDUCATION

- **Indian Institute of Engineering Science and Technology, Shibpur** 
Bachelor of Technology - Computer Science and Technology 2018 - 2022
CGPA: 9.69/10, University Rank: 5/750, Transcripts 
- **St. James' School, Kolkata** 
Indian School Certificate Examination (Higher Secondary) May 2018
Score: 97.5%, All India Rank: 9 (out of 80,000 candidates), Marksheets 

WORK EXPERIENCE

- **Veritas Technologies LLC** R&D Org, Pune, India
Associate Software Engineer (Full-time) July 2022 - Present
 - Working to orchestrate scaling-out of micro-services of **NetBackup** , a flagship offering of the company, for Data Protection, using Kubernetes operators. Delivered on three releases, enabling **decoupling** of 5 micro-service-based containers from a monolithic PrimaryServer. The same helped reduce TCO in a customer environment by 13%
 - Providing continuous updates to mainline health and Veritas Container Registry binaries for the **CI/CD pipeline** of BaaS(Backup-as-a-Service) offering.
 - Worked in test automation to write two test suites for validating **Nutanix Prism Central** Element's Backups and Restores.
 - **Recognition:** Received 2 spot bonuses and 1 performance appreciation bonus for quick ramp-up and throughput to EPIC-specific defect fixing and development.
- **IBM India** Oracle Siebel Team, India
Associate Developer (Internship) Jan 2022 - June 2022
 - Contributed to the Implementation of Siebel CRM for Indian Oil Corporation Ltd 
 - Worked with the UX team to revamp the company's then existing Document Correction workflow (Web based), which required signing in with an SR number.
 - Customised OpenUI for **enabling Cell Number based signing in** to IOCL's Document Correction Service , realising and shipping 4 **wire-frames** to production, which **increased** the projected Task Success Rate by 17% and conversion rate for the workflow by 13%
- **Universität Bremen, Germany** DAAD-WISE Fellow, Remote
Research Intern May 2021 - Sept 2021
 - Worked at the Computer Graphics and VR Group, under the guidance of Prof Gabriel Zachmann and Toni Tann on clustering segments of 3D Objects for Collision Detection, CollDet 
 - Carried out experiments on constructing Bounding Volume Hierarchies for 3D objects using clustering approaches. Used **K-Means, Mean Shift, Hierarchical clustering** and other heuristics to improve upon the then existing Batch Neural Gas method used for the purpose.
- **Indian Statistical Institute, Kolkata** INAE Research Internship, Remote
Research Intern June 2021 - July 2021
 - Corroborated with Prof. Sushmita Mitra and Subhashis Banerjee of the Machine Intelligence Unit to write a **pre-processing pipeline** for Lung CT
 - The pre-processing pipeline included converting .nii voxels to HU, **correcting** for translational, rotational invariance, morphological dilation, hole filling, salt & pepper **noise removal** as well as voxel **normalisation**.

PUBLICATIONS

- **Link Prediction for Social Networks using Representation Learning and Heuristic-based Features** Samarth Khanna, Sree Bhattacharyya, **Sudipto Ghosh**, Kushagra Agarwal and Asit Das. *Ninth International Workshop on Mining Actionable Insights from Social Networks, MAISoN* , **IJCAI 2023**

PROJECTS

- **TrackEA - (An Enhanced Object Tracking Algorithm)** ↗ Used YOLO for ROI selection and re-initialization, in case of a certain threshold of tracking failures. Ran experiments to empirically determine/formulate the tracking failure threshold for different Multi Object Tracking Algorithms such as Boosting, Multiple Instance Learning, KCF, Median Flow, CSRT, MOSSE for the purpose. Benchmarked results of tracking for each algorithm against the MOT(Multi Object Tracking) Benchmark ↗
- **Study of Approaches for Link Prediction in Social Networks** ↗ B.Tech thesis under Prof. Dr. Asit Kumar Das ↗ . Compared structural, neighborhood-based, Graph Attention & GNN based node as well as edge representation methods v/s Heuristic based featurization for edges. Experimented using node representations with ensemble ML models and empirically tried neural network architectures for predicting links on 4 different social network datasets. Finally, proposed a combination of learned representations and heuristics. Demonstrated improvements in F1 score across most datasets and predictive modelling techniques using this new feature set. Thesis Report ↗

SKILLS

- **Languages** Python, C++, Golang, SQL, C
- **Frameworks** ScikitLearn, OpenCV, TensorFlow, Keras, Numpy, Pandas
- **Tools** Git, CMake, LaTeX
- **Systems & Programming** Unix-based, Elastic Kubernetes Service, Azure Cloud, Docker, Kubernetes

AWARDS AND ACHIEVEMENTS

- **Smt. Golaap Saha Memorial Award** Awarded the scholarship by IEST Shibpur - May, 2019, for being the student with highest GPA in the first year of study.
- **DAAD Working Internships in Science and Engineering 2021** ↗ Received the same for research internship at a public German Institution.
- **IIT Roorkee SPARK 2021** Selected for the Research inetrnship, however, couldn't accept the same, due to conflicts in interest with other internships.
- **Mentoring by INAE Fellows** Selected for Mentorship by INAE Fellow, Dr. Sushmita Mitra, for research internship at Machine Intelligence Unit, ISI Kolkata. Project Proposal ↗
- **Bishop's Gold Medal for Academic Excellence** Awarded by St. James' School, Kolkata - May 2018, for ranking first schoolwide in the ISC (Sr. Secondary examinations)
- **Certified Eligible for DST Inspire Scholarship** Was not however, apply for it, as it was only for candidates pursuing pure sciences

VOLUNTEERING

- **University of California, Berkeley, Haas School of Business** Kolkata, India
Volunteered to be part of a control study group evaluating User Experience June 2022
- **Veritas Technologies LLC, vEngage Core Team** Pune, India
Volunteered for VMahotsav - a tree planting initiative in Baner Hills, every weekend Sep 2022 - Nov 2022

CO-CURRICULAR ACTIVITIES

- **Active member of the Pride Circle** ↗ An organisation which organises job fairs, mental health awareness bootcamps and various other job preparedness initiatives for LGBTQ+ folks
- **Performer and trainee in Indian Classical Vocal music** Trivia : Participated in talent contest at Veritas Technologies and even grabbed the first spot
- **Member in LitSoc, Euphony** The literature and music club of IEST, Shibpur