

| | | |
|-------------|---|---------------------|
| Education | University of Illinois, Urbana-Champaign, IL, USA <i>Ph.D. in Electrical and Computer Engineering</i> | Aug 2021 - Present |
| | Indian Institute of Technology Roorkee, Uttarakhand, India <i>B.Tech. in Electronics and Communication Engineering</i> <i>M.Tech. in Wireless Communication</i> | Jul 2009 - Jun 2014 |
| Employment | University of Illinois, Urbana-Champaign, IL, USA <i>Graduate Research Assistant</i> | Aug 2021 - Present |
| | I am studying ways to effectively represent mathematical equations in a continuous vector space (similar to word2vec for natural text) under the supervision of Prof. Nickvash Kani. | |
| | Myntra, Bengaluru, KA, India <i>Technical Lead</i> | Apr 2019 - Aug 2021 |
| | I led a team of three people that managed the inventory systems of Myntra. I was responsible for maintaining and supporting the inventory systems as well as software architecture and design of new features. I was also responsible for building the technical roadmap for the team. The projects included scaling inventory systems to support 1000x traffic and salvaging the orphan inventory in Myntra warehouses. | |
| | Senior Software Engineer | Mar 2017 - Mar 2019 |
| Internships | I worked in the tech team for warehouse management. The main projects included last-mile consolidation and multi-tenancy to enable multiple tenants on the existing systems. I also led a team of four people to overhaul the design and architecture of the stock transfer workflow. I acquired skills in system design and architecture, asynchronous frameworks, and team management. | |
| | AIANash/Shoplane, Bengaluru, KA, India <i>Co-founder</i> | Sep 2015 - Jan 2017 |
| | I worked in a team of three on creating a platform to improve online customer experience by predicting user intent. The initial work was on developing a smart shopping experience employing artificial intelligence. It later shifted to creating a B2B artificial intelligence-driven analytics platform. I worked on deep learning algorithms, Gaussian processes, and topic modeling and developed mathematical modules for the same. | |
| | Commonfloor, Bengaluru, KA, India <i>Software Development Engineer 1</i> | Jun 2014 - Sep 2015 |
| Internships | I was part of the revenue team in the real-estate vertical. I worked on lead sharing and pricing modules. I also developed a JavaScript plugin to track and analyze the impressions to find the ad performance on the product pages. | |
| | IBM India Software Labs, Bengaluru, KA, India <i>Extreme Blue Internship Program</i> | May 2013 - Jul 2013 |
| | I worked on the timing analysis of digital circuits and created core data models for GLSM that were modular and multi-threadable. | |
| Internships | Defence Research and Development Organisation, Bengaluru, KA, India <i>Summer Intern</i> | May 2012 - Jul 2012 |
| | I analyzed the helix slow-wave structure (SWS) and compared the results with HFSS results (MATLAB). | |

| | | |
|-----------------------------|---|--|
| Research Interests | Bayesian deep learning, computer vision, deep learning, interpretability, language processing, theoretical machine learning. | |
| Relevant Coursework | Pattern Recognition, Mathematical Models of Language, Deep Learning, Computer Vision, Probability Theory, Information and Communication Theory, Adaptive Filter Theory, Data Structures and Algorithms, Computer Networks. | |
| Publications | Preprints 1. Semantic Representations of Mathematical Expressions in a Continuous Vector Space 🔗 Neeraj Gangwar , Nickvash Kani (2022) | |
| Teaching | EC-362: Communication Systems Lab , IIT Roorkee Teaching Assistant with Prof. Debashis Ghosh | |
| Extra-Curricular Activities | Mentor, DIYA Research [diya-research.org] Member of SDS Labs [sdslabs.co], IIT Roorkee Coordinator of the Linux Group, IIT Roorkee Member of the National Service Scheme (NSS), IIT Roorkee | Summer 2022 2010 - 2014 2011 - 2012 2009 - 2010 |
| Open Source | Contributed the following to scikit-learn : 1. Repeated cross-validators [PR #8120]. 2. Enhance the documentation for coverage error [PR #7915]. | |