I G Prasad

Department of Computer Science & Engineering Indian Institute of Technology, Kanpur

EDUCATION

Year	Degree/Certificate	Institute	CPI/%
2018-Present	M.Tech (Computer Science & Engg.)	Indian Institute of Technology, Kanpur	8.6/10
2011-15	B.Tech (Computer Science & Engg.)	University Visveswaraya College Of Engineering, Blore	79%
2011	Higher Secondary Certificate(XII)	MPES SDM PU College, Honnavar	89.33%
2009	Secondary School Leaving Certificate(X)	NES English Med School, Honnavar	94.24%

PROFESSIONAL EXPERIENCE

• Intern, Ericsson India Global Services Pvt. Ltd,

(May'19-July'19)

Email: prasad.ig1993@gmail.com

Phone: +91-9483939996

• QA Developer, Datalicious Pty. Ltd.,

(Sept'16-Mar'17)

• Test Associate Engineer, Dell International Services India pvt. ltd.

(Jul'15-Sept'16)

• Intern, Dell International Services India pvt. ltd.

(Jan'15-Apr'15)

RESEARCH EXPERIENCE

• Intelligent Path Planning for Robots, Guide : Prof. Indranil Saha

(Jul'19-present)

- o Performed Literature Survey on existing methods and use of Machine Learning in Path Planning.
- Evaluated existing Deep Learning Based Path planner to set the benchmark.
- Implementing a Path planner in dynamic environment using D* and Deep Learning.

COURSE PROJECTS

• Conditional Neural Processes, CS698X, Guide: Prof. Piyush Rai

(Jan'19-Apr'19)

- o Implemented CNP and surveyed its variants like Neural Processes and Attentive Neural Processes.
- Proposed a Conditional Neural Net based method for Zero Shot Classification on AWA1 dataset and implemented it.
- Unsupervised Image Segmentation from Videos, CS783A, Guide : Prof. Vinay P. Namboodiri

(Mar'19-Apr'19)

- o Implemented state-of-the art W-net architecture for unsupervised segmentation with CRF post-processing.
- $\circ \ \ \text{Implemented SLIC based superpixel segmentation to solve Unsupervised Image Segmentation}.$
- Formal Methods for Semi-Autonomous Driving, CS638A, Guide: Prof. Indranil Saha

(Feb'19-Apr'19)

- Performed literature survey on Human-In-The Loop control Systems.
 - Studied a controller synthesis method for semi-autonomous cars which guarantees the safety of the controller.
- Content Based Image Retreival, CS783A, Guide: Prof. Vinay P. Namboodiri

(Jan'19-Feb'19)

- Implemented SIFT based image retrieval tool, which retrieves set of images based on query image.
- o Proposed an ensemble based weighted retrieval method which uses SVM,Decision Tree and SIFT features.
- Envy-Free Allocation, CS656A, Guide: Prof. Sunil Simon

(Mar'19-Apr'19)

- Performed literature survey on Envy-Free allocations of indivisible goods.
- Analyzed various algorithms that gives Envy-Free allocation upto one good for upto 3 agents.
- Replicated Document Management System, CS632A, Guide: Prof. R.K.Ghosh

(Aug'18-Nov'18)

- Implemented a replicated database of documents with guaranteed consistency
- o Demonstrated a practical application where RDMS can be used by implementing GIT type document repository.
- Empirical Analysis of Supervised Algorithms for Classification, CS771A, Guide: Prof. Piyush Rai

(Aug'18-Nov'18)

o Performed evaluation of Classification algorithms like SVM, Decision Trees, Random Forest, KNN, Deep Neural Net etc.

ACHEIVEMENTS AND AWARDS

- Secured All India Rank 275 in GATE 2018 among approximately 1.1 Lakh candidates.
- Received the Academic Excellence Award for exceptional academic performance in 2018-19 academic session in IIT Kanpur.
- Received **On The Spot Award** in Dell R&D for developing a simulation framework apart from the regular automation work.

TECHNICAL SKILLS

- **Programming Languages**: C,C++,Python,C#,\MT_EX
- Software and Libraries: Git, Tensorflow, PyTorch, Keras, ROS, scikit-learn

RELEVANT COURSES

Intro to Machine Learning	Probabilistic Modelling & Inference	Probability & Stochastic Processes
Visual Recognition	Algorithmic Game Theory	Maths for ML: Linear Algebra(Coursera)
Formal methods for Robotics	Distributed Systems	Parallel Algorithms

TEACHING ASSISTANCE EXPERIENCE

• Introduction to Computing (Instructor : Prof. Purushottam Kar)

(Aug'18-Nov'18)

• Formal methods for Robotics and Automation (Instructor: Prof. Indranil Saha)

(Jan'20-Apr'20)