

Academics

2017-2021	Bachelor of Technology in Computer Science and Engineering , IIT Kharagpur
GPA	9.86/10.0 (Currently Pursuing)
2017	Higher Secondary School Certificate Examination (CBSE), St. Columba's School
GPA	97.4%

Work Experience & Projects

Mar 18- Current	Artificial Intelligence Team Member: Kharagpur RoboSoccer Research Group https://github.com/KRSSG Guide: Prof. Jayanta Mukhopadhyay - Research Objective: To build and study cooperative multi-agent systems in dynamic adversarial environments. - Regularly participates in RoboCup: An international scientific initiative with the goal to advance the state of the art of intelligent robots. - Created a GUI that integrates the GrSim (Simulator for RoboSoccer SSL) and our fsm architecture based codebase using PyQt and ROS: https://github.com/RKJenamani/robocup-stp/tree/GUI
May 18	RRT-Star with APF: Potential Functions based Sampling Heuristic For Optimal Path Planning https://github.com/RKJenamani/RRT-Star-With-APF - Implemented a Potential Function Based- RRT(Rapidly-exploring Random Trees)-Star algorithm for single-query path planning problems that incorporates the Artificial Potential Field algorithm in RRT*.
June 18	Role Assignment: A Module for automatic allocation of tasks to bots in a dynamic soccer game environment. https://github.com/RKJenamani/Role-Assignment - Implemented a methodology for multiagent robot coordination that consists of a Game Analyzer module that dynamically creates tasks that need to be solved in Robosoccer game situations together with an Assignment Module that automatically assigns tasks to agents optimally.

Scholastic Achievements

- **IITJEE Mains, All India Rank 756:** In top 0.07% amongst more than 11,00,000 students.
- **IITJEE Advanced, All India Rank 2870:** In top 1.5% amongst more than 2,00,000 students.
- **National Entrance Screening Test, All India Rank 8:** In top 0.016% amongst more than 80,000 students.
- **Kishore Vaigyanik Protsahan Yojana SA, All India Rank 298:** National Scholarship Examination held by Department of Science and Technology, Government of India.

Technical Skills

Programming Languages	C C++ Python
Libraries and Tools	OpenCV PyQt ROS Numpy Tensorflow
Field of Interest	Path Planning Machine Learning Image Processing Algorithms

Activities & Leadership

- **Secretary, Code Club, IIT Kharagpur:** A society dedicated to garnering coding skills and shaping IIT Kharagpur's future in the coding arena. Organized up.AI 2018, West Bengal's largest Artificial Intelligence and Machine-Learning summit.
- **Active Member, Quiz Club, IIT Kharagpur:** Responsible for fostering participation and promoting quizzing in IIT Kharagpur.
- **Former Member, Technology Robotix Society, IIT Kharagpur:** Focal point for activities and projects related to robotics in IIT Kharagpur. Created a Lane Following Bot and organized Robotix 2018, one of India's largest robotics events.
- **Former Member, Debating Society, St. Columba's School**

Awards & Achievements

- **Qualified for ACM ICPC 2018 Asia Amritapuri Regionals:** Part of best ranked sophomore team from IIT Kharagpur.
- **Best Fresher, Poles Apart, Kshitij 2018:** Awarded 'Best Fresher' in a Robotics Event at Kshitij 2017, Asia's largest techno-management fest.
- **Participated in Inter-IIT Cultural Meet, 2017:** Part of gold winning Quiz contingent.
- **Awarded a certificate of 'STUDENT PAR EXCELLENCE' by Computer Science and Engineering Department, IIT Kharagpur**

Relevant Coursework

(T)heory and (L)aboratory

Completed	Programming And Data Structures (T/L) Algorithms I (T/L) Discrete Structures (T) Symbolic Logic (T) Signals and Networks (T)
Currently Pursuing	Switching Circuits and Logic Design (T/L) Software Engineering (T/L) Probability and Statistics(T) Symbolic Logic (T) Formal Language and Automata Theory(T)
Online Coursework	Machine Learning by Andrew Ng (Coursera) Deep Learning and Neural Networks (Coursera)