Rohit Gupta

| ■ rohitgu974@gmail.com | A rohitgupta.ml | ☐ rohitgpt **Education Indian Institute of Technology Kanpur** Kanpur, India MASTER OF TECHNOLOGY, MECHANICAL ENGINEERING CPI: 8.0/10.0 2018 - 2019 BACHELOR OF TECHNOLOGY, MECHANICAL ENGINEERING CPI: 7.7/10.0 2014 - 2018 **Aggarsain Public School** Kurukshetra, India CLASS XII, CENTRAL BOARD OF SECONDARY EDUCATION PERCENTAGE: 90.8% 2013 - 2014 Scholastic Achievements All India Rank 946, Joint Entrance Exam Advanced, 150,000 candidates India National Top 1%, National Standard Examination in Astronomy (NSEA) India Work Experience Structural Engineer Eaton India Innovation Centre Aug. 2019 - Feb. 2021 · Supported electrical portfolio of the company as design analyst. Tools Used: Ansys Mechanical, Spaceclaim Worked on multi-physics analysis like Short Circuit (EMag-Structural), Wind Load (Fluid-Structural) etc. • Automated the preprocessing part of the structural analysis leading to significant efficiency improvement. **Controls Engineer** Eaton India Innovation Centre Mar. 2021 - Present Worked on the development of control software for EATON TCM for Proterra, HMC, Kensworth, FAW. Implemented some key features such hill hold, Anti-Lock Braking System. Application softwares used: Matlab Simulink, Vector Canape, Vector Canalyzer Master's Thesis May 2018 - Jun. 2019 Modelling natural structures Guide: Dr. Sumit Basu · Objective: To obtain mechanical model of natural structure as a result of structural optimization applied to constituent materials under given constraints of loading and boundry conditions • Implemented Method of Moving Asymptotes algorithm in MATLAB for topology optimization Designing FEM routine for evaluation of structures generated in each optimization step Developing pipeline to generate topologically optimum structure satisfying given constraints **Projects** Multi-Task Learning for NLP tasks TERM PROJECT, MENTOR: PROF. HARISH KARNICK Jan. 2018 - Apr. 2018 • Developed a deep neural network capable of learning from different related tasks • Implemented MTL on existing networks by introducing sharing matrix between 2 different task specific network POS & Chunking tasks were learned simultaneously with parameter sharing with improved accuracy ModAV: Modular Aerial Vehicle B.TECH PROJECT, MENTOR: PROF. ASHISH DUTTA Jul. 2017 - Apr. 2018 Build modular UAV(different configuration like quadrotor, hexacopter) inspired by DFA project at ETH Zürich Designed autonomous docking mechanism for joining the 4 rotor units to 1 control unit PX4 autopilot on-board Pixhawk flight controller was used for autonomous navigation Proposed method for autonomous landing and take off by adding mono color camera and laser Stock Market Prediction Course Project, Prof. Purushottam Kar Jul. 2017 - Nov. 2017 Fore-casted the variations of a given market [NASDAO Composite Index] with 62% accuracy • Incorporated NIKKEI, RUSSELL and WILSHIRE indices, along with FOREX rates into the feature set for model • Predicted the values as +ve/-ve using Weighted Voting Ensemble of ARIMA, Kernel SVM and Neural Network Twitter Mood Visualization Summer Project, Electronics Club May 2015 - Jun. 2015 · Created a dynamic art model for generating artistic pattern using different colored sand describing mood of twitter • Tweets obtained using Twitter API were classified by Naive Bayes Classifier into different emotion-type. • Arduino controlled servo motors which pour the sand corresponding to current emotion to create patterns Courses **IBM Machine Learning Specialization Robot Motion Planning Probabilistic Mobile Robotics** Computer Systems Securities Multi-agent systems Mechatronics Data Structures & Algorithms Positions of Responsibility Sep. 2019 - Dec. 2020

Conducted Annual Photography Contest for the employees at the country level.

• Organized photography workshop and drive participation in the EIIC Got Talent.

Book Master, Gymkhanna Library Presidential Council

May 2016 - Apr. 2017

Jan 2016 - Mar. 2016

· Led a team of 8 ensuring proper working of the library. Administered a budget of 35K and maintained a good collection of books

Astronomy Event Coordinator Techkriti'16

Coordinated all the astronomy events like Astro Quiz, WhatsUp etc. in Techkriti'16

Extra Curricular Achievements

2017 2nd Prize, Astro Quiz, Techkriti'17 IIT Kanpur German Language, A Grade, Level 1 2015 IIT Kanpur **Secretary, Association ME**, Managed the conduct of Freshers' night of Y15 ME dept. 2015 IIT Kanpur