Samarjit Karmakar

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Education	**National Institute of Technology, Warangal** *B.Tech, Computer Science & Engineering, Expected 2020.* GPA: 8.81/10.00
Research Experience	**MILE Lab, Indian Institute of Science, Bangalore** *Summer Research Fellow, May - July 2018* *Guided by: Dr. A. G. Ramakrishnan and Mr. Ram Krishna Pandey* • Fundamental research work in improving deep learning based super-resolution models, such as SRCNN and ESPCN, without effecting the computational cost while testing. • Implemented multiple models for achieving real time neural style transfer with reduction in the number of parameters. [Report]
Academic Projects	**Robotic Claw** Developed a robotic claw which can mimic hand gestures to showcase at the finale of INK Makers Makeathon-2017 at IIIT Hyderabad. The uniqueness of this claw lies in the fact that the flex sensors were created using a low cost alternative. This led to a drastic reduction in cost of the device. **Database Design of an e-Commerce Platform** Created the logical data model and implementation data model for an e-commerce platform database as a part of the database systems course. The documentation can be found at this link. [pdf]
Awards & Honours	**Science Academies' Summer Research Fellowship - 2018** *Indian Academy of Sciences, Bengaluru* *Indian National Science Academy, New Delhi* *The National Academy of Sciences, Allahabad* Fellowship awarded for research work at IISc Bangalore **Institute Merit Scholarship, NIT Warangal** B.Tech First Year, 2016-2017 **Mamraj Agarwal Rashtriya Puraskar** *Presented by Governer of West Bengal* Raj Bhavan, Kolkata, 2016 Recognition for achieving 96.4% in AISSCE, 2016
Technical Skills	**Languages**: C++, Java (basic), Python, SQL. **Packages**: LaTeX, PyTorch (basic).
Relevant Coursework	Data Structure & Algorithms, Programming in C++, File Structures, Discrete Mathematical Structures, Database Management Systems, Systems Programming, Object Oriented Programming in Java.
Publications	• R. K. Pandey, N. Saha, **S. Karmakar**, A. G. Ramakrishnan, "Improving super-resolution algorithms by an edge preserving robust loss function", Accepted at the 25th International Conference on Neural Information Processing at Siem Reap, Cambodia.