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| [www.linkedin.com/in/w1nsg0yal/](https://www.linkedin.com/in/w1nsg0yal/)  [github.com/winsgoyal](https://github.com/winsgoyal?tab=repositories) | Wins Goyal | +1 (352) 871-3689  winsgoyal.iitj@gmail.com | | |
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| **EDUCATION** | | | | |
| **University of Florida, Gainesville, Florida** | | | *Aug 2019 - Aug 2021* | |
| *Master of Science - Computer Science, Herbert Wertheim College of Engineering* | | | *GPA: 3.89/4.0* | |
| * *Courses:* Fundamentals of Machine Learning, Distributed Operating Systems, Analysis of Algorithms | | | | |
| **Indian Institute of Technology Jodhpur, Rajasthan, India** | | | *July 2011 - May 2015* | |
| *Bachelor of Technology, Computer Science and Engineering* | | | *GPA: 7.2/10* | |
| * Received Merit-cum-Means Scholarship AY 2011-12, for best academic performance, from the institute * *Relevant Electives:* Complex Networks, AI & Machine Learning, Image Processing, Neuroscience | | | | |
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| **TECHNICAL SKILLS** | | | | |
| * *Proficient in:* **Python** (Anaconda, Django, Numpy, Pyplot), **C++** (OpenCV, Vectors), Elixir, Ruby, PostgreSQL * *Framework/libs./platforms:* Keras, TensorFlow, Scikit, PyTorch, Phoenix, Arduino, Ruby on Rails, Bitbucket, Git * *Basic in:* R, Java, Dart; *Familiar with:* C, prolog, JavaScript, JSON, JQuery, MATLAB, LabView, Julia, Octave * *Software:* Solidworks & Simulations, 3Ds-Max, Adobe Photoshop & After Effects, Sony Vegas, MS Office | | | | |
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| **PROFESSIONAL EXPERIENCE** | | | | |
| ***Jr. Research Engineer****,* **IoTSPACE Pvt. Ltd.,** *India* | | | *Jan 2018 - Apr 2019* | |
| * As ***Research Assistant*** to evaluate Product designs for IoT based Smart City devices and Kitchen robotics. * As ***Alliance Executive***for Smart City consortium, and for enterprise outreach strategies. | | | | |
| ***Software Engineer****,* **Voylla Fashions Pvt. Ltd.,** *India* | | | *May 2015 - Dec 2016* | |
| * Developed ‘***Virtual Try-On***’ - interactive web-app to virtually try jewelry online - using *HTML5 Canvas* & *Object-tracking JS frameworks*. Devised optimal***Data* C*entralization process***by ELT mechanisms. * Implemented automation of accurately fitting Jewelry images on Model images using AWS S3, standardizing ***Image-processing*** through synchronized *Python, Ruby, AWS CLI* and *Photoshop Action Scripts*. * Worked on *backend/frontend optimizations* including data-indexing & garbage-collection issues | | | | |
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| **PERSONAL/ACADEMIC PROJECTS** | | | | |
| **Ensemble Learning model for Optical Character Recognition** | | | | |
| *Course Project, Fundamentals of Machine Learning, University of Florida* | | | *Aug 2019–Dec 2019* | |
| Enhanced the preprocessed input by extracting character contours using shape-context descriptor algorithm. Achieved ~96% recognition accuracy implementing KNN model fed with PCA-applied character images. | | | | |
| **Drug-Similarity & Drug-Target Interactions Models** | | |  | |
| *B.tech Final Year Project, IIT Jodhpur* | | | *Aug 2014–Apr 2015* | |
| Programmed a learning software for classifying Drugs & analyzed different correlation indices, significantly reducing Drug Pipeline Process and creating accurate metrics of predicting Drug Repositioning. | | | | |
| **Solar (PV) Panel Cleaning Robot** | | |  | |
| *Industry Project (Larsen & Turbo, Solar Park in Phalodi, Rajasthan), IIT Jodhpur* | | | *Apr 2012–Aug 2012* | |
| Fashioned designs & assessed the efficiency of three models (autonomous/manual) for low-cost dry cleaning robots for Inclined Solar-panels. The selected model was deployed at Solar Park, Phalodi. | | | | |
| **Micro Air Vehicle** | | |  | |
| *MICAV-2013 (National-level Annual competition organized by DRDO and NAL)* | | | *Dec 2012 - July 2013* | |
| Engineered MANET with AODV protocols for communication and media transmission network with an autonomous Micro-UAV using a manual UGV as a hopping station. The team got shortlisted in the finals. | | | | |
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| **ACHIEVEMENTS** | | | | |
| *#UdacityKPITScholar:* Achieved Scholarship for ‘*Self Driving Car Engineer*’ nanodegree | | | | *Nov 2018 - Aug 2019* |
| - Projects (in 1st term): *Lane Tracking, Traffic Sign Classifier, Behavioral Cloning, Advanced Kalman Filters*  *-* Projects (in 2nd term): *Kidnapped Vehicle using particle filters, Implementing Feedback system using ROS* | | | | |
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| **EXTRA-CURRICULAR** | | | | |
| * *MOOCs (Audits):*Deep Learning Specialization Course *(Coursera)*, Underactuated Robotics *by MIT* *(Edx)*   - Undertook project on ‘*Anatomical Brain Segmentation*’ as part of the course (citing Qure.ai blog), *2017 - 2018*   * Pioneered *First* *Robotics Summer Camp* at IIT Jodhpur in *Summer 2013* for 8 interdisciplinary teams. * Got selected for *short term course on 'Mechatronics and Robotics'* by *IIT Indore in July 2013*, getting hands-on practice on cutting-edge technology tools, MEMS and Actuators. * **Media, Arts & Design Council** (Students’ Gymkhana, IITJ**)***, General Secretary (6 clubs), Apr 2013-Apr 2014.* * **Punarjyoti Eye-donation Society** (City NGO, Bathinda), *Medical Camp Organizing Committee, since Feb 2017.* | | | | |