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| **WINS GOYAL**  +1 (352) 871-3689 | [winsgoyal@ufl.edu](mailto:d.paryani@ufl.edu) | [LinkedIn](https://www.linkedin.com/in/w1nsg0yal/) (w1nsg0yal) | [Github](https://www.github.com/winsgoyal/) (winsgoyal) | | | |
| **EDUCATION** | | | |
| **University of Florida,** Gainesville, Florida | | *Aug 2019–Dec 2020* | |
| *Master of Science - Computer Science, Herbert Wertheim College of Engineering* | | *GPA: 3.89/4.0* | |
| * *Courses:* Distributed Operating Systems, Analysis of Algorithms, Database Systems and Implementation,   Mathematics for Intelligent Systems, Machine Learning, Projects in Data Science | | | |
| **Indian Institute of Technology (IIT) Jodhpur,** Rajasthan, India | | *July 2011–May 2015* | |
| *Bachelor of Science, Computer Science and Engineering* | |  | |
| * *Relevant Courses:* Complex Networks, AI & Pattern Recognition, Image Processing, Neuroscience | | | |
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| **TECHNICAL SKILLS** | | | |
| * ***Proficient:***Python, C++, Java, Elixir, Ruby, PostgreSQL; ***Familiar:***JavaScript, JSON, MATLAB, HTML/CSS * ***Framework/platforms:***Anaconda, Django*,* Phoenix, Ruby on Rails, AWS S3/CLI, RTOS, Bitbucket, Git * ***Machine Learning lib.:***TensorFlow, Keras, PyTorch, OpenCV2, Numpy, Scikit, Pandas, MatplotLib, PIDs | | | |
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| **PROFESSIONAL EXPERIENCE** | | | |
| ***Jr. Research Engineer****,* **IoTSPACE Pvt. Ltd*.,*** Maharashtra, India | | *Jan 2018–Apr 2019* | |
| * Evaluated IoT based product designs and the execution of the *Mesh & MQTT* based networking app. * Solved *brown-out memory flush* issues, and implemented heuristic failure tolerance on Raspberry Pi 3. | | | |
| ***Software Engineer****,* **Voylla Fashions Pvt. Ltd.,** Rajasthan, 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/ETL mechanisms. * Implemented automation of accurately fitting Jewelry images on Model images using AWS S3, standardizing ***Image-processing*** through synchronized *Python, Ruby, AWS CLI,* *Photoshop Action Scripts* and *Shell scripts*. * Worked on *backend/frontend optimizations* including data-indexing & garbage-collection issues. | | | |
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| **GRADUATE RESEARCH WORK** | | | |
| **Algorithms for Plant Phenotyping,** *Machine Learning & Sensing Lab* | | *Mar 2020–present* | |
| * Devising optimal algorithms to extract & analyse roots length, density, contours and structure using OpenCV, Scikit, Variational Auto-encoder (VAE) and Markov Decision Processes (MDP). | | | |
| **[Hypotheses Generation, Data Science Research Lab](https://github.com/TonyBY/HypothesisGeneration)** | | *Jan 2020–present* | |
| * Designed evaluation metrics for Query Inferencing over DARPA provided Knowledge Base (KB) using *pre-trained Embeddings* & *TF-IDF scores*. Appended topK-coherent predicates to XML file. * Automating summary generation for graphs created from DBpedia articles using *Seq2Seq with attention*. | | | |
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| **PERSONAL / ACADEMIC PROJECTS** | | | |
| **[Ensemble Learning model for Optical Character Recognition](https://github.com/foundationsmachinelearning-fa19/project-01-neo_digits)** | | | |
| *Course Project, Fundamentals of Machine Learning, University of Florida* | | *Nov 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. | | | |
| **[Actor Model Applications in Distributed Systems](https://github.com/Rahul-Wahi/Tapestry-Peer-to-Peer-Overlay-Network)** | | | |
| *Projects in Distributed Operating Systems, University of Florida* | | *Sep 2019–Dec 2019* | |
| Implemented paper on ‘***Resilient Tapestry Overlay***’ using backpointers incorporated distributed hash-tables. Evaluated ‘***Gossip Algorithm***’ on different large scale network topologies. Established web-sockets with Genserver-Supervisor architecture for Twitter Engine simulator using ETS Storage and Phoenix framework. | | | |
| **[Self Driving Car Engineer](https://github.com/winsgoyal/SDCarND-Traffic-Sign-Classifier)** | *Jan 2017–Dec 2018* | | |
| Traffic Sign Classifier, Behavioral Cloning, Extended Kalman Filters, Kidnapped Vehicle, Feedback system | | | |
| **Drug-Similarity & Drug-Target Interactions Models** | | | |
| *B.tech Final Year Project, IIT Jodhpur* | | *Aug 2014–Apr 2015* | |
| Programmed a model to classify Drug-targets & analyzed Jaccard, J++ indices with RoC curves, significantly reducing Drug Pipeline Process and creating accurate metrics of predicting Drug Repositioning. | | | |
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| **ACHIEVEMENTS / AWARDS** | | | |
| *#UdacityKPITScholar:* Achieved Scholarship for ‘*Self Driving Car Engineer*’ nanodegree  *Merit-cum-Means Scholar:* Achieved tuition fee waiver for best Academic performance | | | *Jan 2017–Dec 2018*  *Jul 2012–Apr 2013* |
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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 * Obtained hands-on practice on MEMS, Actuators in *'Mechatronics and Robotics' course* by *IIT Indore (July 2013)* | | | |