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| [icons8-github-24](https://www.github.com/winsgoyal/)[icons8-linkedin-24](https://www.linkedin.com/in/w1nsg0yal/)icons8-phone-26[icons8-email-open-32](mailto:winsgoyal@ufl.edu)**WINS GOYAL**  +1 (352) 871-3689 | winsgoyal@ufl.edu | (w1nsg0yal) | (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, Operating Systems | | | |
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| **TECHNICAL SKILLS** | | | |
| * ***Proficient:***Python, C++, Java, Elixir, Ruby, R;***Web Technologies:*** JavaScript, React.js, Node.js, HTML/CSS * ***Database / Streaming:*** PostgreSQL, MongoDB, Airflow, Cassandra, Spark, AWS Redshift, AWS S3 * ***Framework / Platforms:***Django*,* Phoenix, Flask, Ruby on Rails, Dockers, Gtest, Spyder, Jupyter, CLion * ***ML/NLP:***SpaCy*,* OpenIE,TensorFlow, PyTorch, OpenCV2, Numpy, Scikit, Pandas, MatplotLib, MATLAB | | | |
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| **PROFESSIONAL EXPERIENCE** | | | |
| ***Jr. Research Engineer****,* **IoTSPACE Pvt. Ltd*.,*** Maharashtra, India | | *Jan 2018–Apr 2019* | |
| * Enhanced data security by *~80%*,by encoding the *MQTT* protocol over a Mesh topology of IoT products. * Solved *brown-out memory flush* and failure tolerance issues to prevent data loss on Raspberry Pi 3 & Arduino. | | | |
| ***Software Engineer****,* **Voylla Fashions Pvt. Ltd.,** Rajasthan, India | | *May 2015–Dec 2016* | |
| * Lead a team of 3 in developing an interactive web-app - ‘***Virtual Try-On***’ - to virtually try jewelry online. * Devised a***Data* C*entralization process***by ETL mechanisms to act as feed to the Data Visualization tools. * Automated and standardized *~70%* of image-editing task of accurately fitting Jewelry images on Model images increasing the output of Image-processing team *from 100 images/day to 1000 images/day*. | | | |
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| **GRADUATE RESEARCH WORK** | | | |
| **EdgeVPN** (Open Source)**,** *Adv. Computing & Info. Systems (ACIS) Lab* | | *May 2020–present* | |
| * Upgraded Tincan and WebRTC files of P2P-based VPN Software, and integrated new WebUI & WebService. | | | |
| **Graph-to-text Representation,** *Data Science Research (DSR) Lab* | | *May 2020–present* | |
| * Implemented Variational Auto-encoder with Attention based Seq2Seq models to measure the accuracy of Sentence-Triples-Sentence conversion using *SpaCy, NLTK, OpenIE & pySpark* on large Wiki Dumps. | | | |
| **Hypotheses Generation,** *Data Science Research (DSR) Lab* | | *Jan 2020–Apr 2020* | |
| * Designed evaluation metrics for Query Inferencing over DARPA provided Knowledge Base (KB) generating more coherent and generalized hypotheses using *pre-trained Embeddings* & *TF-IDF scores*. | | | |
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| **PERSONAL / ACADEMIC PROJECTS** | | | |
| **Data Engineering Nanodegree,** *Udacity* | | *July 2020–present* | |
| * Modeled a cloud data warehouse to optimize data analytics for the music-streaming app. * Configured and debugged production data-pipelines with Airflow and star-schema architecture. | | | |
| [icons8-external-link-24](https://github.com/foundationsmachinelearning-fa19/project-01-neo_digits)**[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. | | | |
| [icons8-external-link-24](https://github.com/Rahul-Wahi/Tapestry-Peer-to-Peer-Overlay-Network)**[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* | |
| * Successfully implemented a paper on ‘***Resilient Tapestry Overlay***’ using backpointers incorporated DHTs. * Analyzed ‘***Gossip Algorithm***’ performance on different large network topologies. Established web-sockets with Genserver architecture for Twitter Engine simulator using ETS Storage and Phoenix framework. | | | |
| [icons8-external-link-24](https://github.com/winsgoyal/SDCarND-Traffic-Sign-Classifier)**[Self Driving Car Engineer](https://github.com/winsgoyal/SDCarND-Traffic-Sign-Classifier),** *Udacity* | *Jan 2017–Dec 2018* | | |
| * Developed Traffic Sign Classifier, Behavioral Cloning, Extended Kalman Filters, Kidnapped Vehicle projects. | | | |
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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** | | | |
| * *Coursera Specializations:*Deep Learning Course *(2017-2018)*,Natural Language Processing *(July-Aug 2020)*   - 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 | | | |