WINS GOYAL

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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

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

PROFESSIONAL EXPERIENCE

Ir. 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 Centralization 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*.

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*

Ian 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*.

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.

Ensemble Learning model for Optical Character Recognition 🖸

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 ☑

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.

Self Driving Car Engineer, Udacity 🖸

Ian 2017–Dec 2018

• Developed Traffic Sign Classifier, Behavioral Cloning, Extended Kalman Filters, Kidnapped Vehicle projects.

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

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