

## EDUCATION

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### **Indian Institute of Technology Jodhpur, Rajasthan, India**

*Bachelor of Technology, Computer Science and Engineering, July 2011 - May 2015*

- Received Merit-cum-Means Scholarship AY 2011-12, for best academic performance, from the institute

## PROFESSIONAL EXPERIENCE

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### **IoTSPACE Pvt. Ltd., Jodhpur, Rajasthan, India,**

*Jr. Research Engineer, Jan 2018 - Apr 2019*

- As Research Assistant and Product Designer for IoT based Smart City devices & in Kitchen robotics.
- As Alliance Executive for Smart City consortium and as Expansion Manager for enterprise strategies.

### **Voylla Fashions Pvt. Ltd., Jaipur, Rajasthan, India**

*Software Engineer, 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 Centralization 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.

## PERSONAL/ACADEMIC PROJECTS

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### **Drug-Similarity & Drug-Target Interactions Models**

*B.tech Final Year Project, IIT Jodhpur, August 2014 - April 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, Summer 2012*

- Fashioned designs & evaluated the efficiency of three models (autonomous & manual) for low-cost dry cleaning robots for Inclined Solar-panels. The selected model is being mass 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.

### **Efficycle - A hybrid two-seated three-wheeled vehicle**

*SAE NIS 2012 (National-level Annual competition), IIT Jodhpur, Apr 2012 - Aug 2012*

- Validated proposed mechanisms mathematically. Modeled & simulated vehicle chassis in Solidworks.

## TECHNICAL SKILLS

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- Proficient in: Python (Anaconda, Django, ML Libraries), Ruby, PostgreSQL; Basic in: R, React, Java
- Familiar with: C++ (OpenCV, Vector), C, prolog, JavaScript, JSON, JQuery, MATLAB, Octave, LaTeX
- Framework/libs./platforms: Keras, TensorFlow, PyTorch, Arduino, Drake, Ruby on Rails (MVC), Bitbucket, Git
- Software: Solidworks & Simulations, 3Ds-Max, Adobe Photoshop & After Effects, Sony Vegas, MS Office

## SELECTED COURSEWORK & ACHIEVEMENTS

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- B.Tech CSE Electives: Complex Networks, Machine Learning, Image Processing, Artificial Intelligence
- 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
- #UdacityKPITScholar: Achieved Scholarship for 'Self Driving Car Engineer' nanodegree, Nov 2018 - Feb 2019
  - Projects (under this course): Lane Tracking, Traffic Sign Classifier, Behavioral Cloning, Advanced Kalman Filters

## EXTRA-CURRICULAR

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- Pioneered First Robotics Summer Camp at IIT Jodhpur in Summer 2013 for 8 interdisciplinary teams. Guided top 2 teams to demonstrate in the First Convocation Ceremony, IIT Jodhpur to the President of India.
- Got selected to attend a certified five-days short term course on 'Mechatronics and Robotics' organized 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.
- Students' Gymkhana Constitution Revision Committee (IITJ), Member, Formal Designs, Oct 2013-Apr 2014.
- Parivartan (A Social Initiative by IIT Jodhpur students) Member, Education & Awareness Wing, since May 2012.
- Punarjyoti Eye-donation Society (City NGO, Bathinda), Medical Camp Organizing Committee, since Feb 2017.