

# Pratik Gujral

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## EXPERIENCE

### MARUTI SUZUKI IND. LTD. | ASSISTANT MANAGER, RESEARCH & DEVELOPMENT

July 2016 – Present | Gurugram, Haryana, India

- Responsible for development of Computer-vision based ADAS POC solutions: Speed bump detection system, Lane detection, Sway warning system.
- Performed statistical analysis on customer vehicle data for Telematics Control Unit (TCU) solution development project
- Built POCs for internal HR and IT helpdesk chatbots using Dialogflow, Microsoft QNA Maker.
- Directly in charge of Electromagnetic Compatibility(EMC/EMI) development testing & new EMC test facility development: Hold engineering meetings, create test plans, execute tests on vehicles & components, test data analysis, suggest countermeasures based on failures to component vendors, and reporting of results to Suzuki Motor Corp., Japan  
Projects: EMC/EMI test on every new Maruti Suzuki model
- Additional: Built Reverse Park Assist System test automation bot, Chishiki- A knowledge hub website, Laboratory equipment management system, Digitization + Automation of 15+ internal systems, processes using Computer Vision, Flask, Selenium (Python) & Microsoft Excel

### FIS GLOBAL BUSINESS SOLUTIONS | DECISION SCIENTIST INTERN

Jun 2016 – Jul 2016 | Gurugram, Haryana, India

Built a time-series prediction engine (using ARIMA, Holts Winters) in R for forecasting of ATM transactions of all major banks

### NIIT TECHNOLOGIES | DATA SCIENCE INTERN

Jan 2016 – Feb 2016 | Greater Noida, UP, India

Mentor-guided learning to Python and R for data science

### MARUTI SUZUKI IND. LTD. | INTERN, IT DIVISION

Jun 2015 – Jul 2015 | Gurugram, Haryana, India

Developed and published MSIL Catalogue- a native Windows Phone app that showcased all the cars produced by the company

## EDUCATION

### GGs INDRAPRASTHA UNIVERSITY | B.TECH IN ELECTRONICS & COMMUNICATION

Graduated 2016 | New Delhi, India • Percentage: 78%

## PROJECTS

- Autonomous Driving: Built different models for [1] Driver behavioral cloning on simulator, [2] Traffic sign recognition with over 99% accuracy, [3] Real-time road vehicles detection on drive.ai dataset using YOLO, [4] Lane Detection using traditional computer vision algorithms
- Face recognition: Developed face recognition system using one-shot learning Siamese networks on FaceNet model
- Private Cloud: Set-up Microsoft Private Cloud in university labs. Project sponsored under MODROBS project of AICTE, MHRD, New Delhi. Received recognition from college for this project.
- Character recognition: Built GUI based tool for handwritten alphabet & numeral character classification

## ADDITIONAL

- Core-organizing team member for Facebook Developer Circle Delhi: Organize speaker sessions, hands-on workshops.
- Udacity Secure and Private AI, Deep Learning Nanodegree Scholarships
- Udacity Deep Learning Nanodegree Scholar
- Recipient of Developer Circles Datacamp Scholarship
- Deep Learning, a 5-course specialization by deeplearning.ai on Coursera. Specialization Certificate earned on June 1, 2019
- Speaker at CSIR, Govt. of India on Machine Learning (2018)
- Facilitator for Google Machine Learning Crash Course (2018)
- Certified Microsoft Technology Associate: MTA 98-366 (2014)

## PROGRAMMING

Proficient

- Pandas • Keras • PyTorch • OpenCV • SQL
- Scikit-learn

Moderate

- Matplotlib • Bokeh • R • Flask • C++ • C#

## LANGUAGES

Proficient

- Hindi (native) • English

Moderate

- Japanese • Punjabi