



Hardik Munjali

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Hardik has 2+ years of experience in the end to end Software life cycle. This includes hands-on experience in Software Development, Computer Vision, Machine Learning, and the Internet of Things.

SKILLS

- **Technologies:** Machine Learning, Deep Learning, Python, OpenCV(Image Processing) Web Development, Django, Arduino, Raspberry Pi, Python, Go
- **Functional Expertise:** Data Modelling and Evaluation.
- **Industry Expertise:** Manufacturing, Retail
- **Exposure to below Data Science related tools/methods:**
 - Data Visualization: Seaborn
 - Deep Learning Architectures
 - Transfer Learning
 - Sequential models/Recurrent Neural Nets with LSTM/GRU
 - Machine Learning/Supervised and Unsupervised Learning
 - Regressions like Linear, Logistic Regression, etc.
 - Clustering/Segmentation
 - Network Analytics, Dimension reduction techniques
 - Neural Networks, SVM, Decision Trees, Random Forest, Bagging and Boosting,
 - Other classification algorithms like KNN, Naive Bayes, LDA, QDA, etc.
 - Data Collection techniques
 - Tools used
 - PyCharm (Python IDE)
 - H2O (AutoML Platform)
- **Version Control and Software Configuration Management:** Svn, Git

PROFESSIONAL EXPERIENCE

1. Hitachi Vantara(HV) ([Website](#))

We co-create with organizations around the world to accelerate their digital transformation and respond to dynamic global change. We bring the power of Hitachi and expertise to you.

Consultant

Aug 2019 – Present

- Coordinating with the sales team in building business propositions and POCs for Machine Learning (ML) and Artificial Intelligence(AI) Practice in HV.
- Developing solutions for Machine Learning (ML) and Computer Vision (CV) domain in HV.

2. ZenLabs, Zensar Technologies ([Website](#))

Zenlabs is the R&D center and innovation hub of Zensar. Zenlabs focus on bringing innovation from a futuristic perspective to help customers with innovative solutions in their area of business.

Associate Innovation Engineer

Jan 2018 – July 2019

- Coordinating with the sales team in building business propositions and POCs for the Internet of Things (IoT) and Artificial Intelligence(AI) Practice in ZenLabs.
- In-depth understanding of complete System Development Life Cycle (from the study of System specifications, Information gathering, System Modeling, hardware designs, integration, User acceptance testing).
- Developing solutions for the Internet of Things (IoT) and Artificial Intelligence (AI) Practice in Zenlabs.

EDUCATION

The NorthCap University (formerly ITM University), Gurgaon

Bachelor of Technology (B.Tech) - Computer Science (2014-2018, 7.5 CGPA)

PROJECTS

Project No. 1	Entity Extraction from Documents (May 2020 – July 2020) Real-time data of a transport client was given to analyze and build machine learning models to extract key-value pairs from documents.
Domain	Manufacturing - HV
Skills	Python, Scikit-learn based models, Pandas, Numpy, OpenCV, AWS Textract
Project No. 2	Optimizing Tyre Manufacturing Process (Sep 2019 – May 2020) Real-time data of a tire manufacturing plant was given to analyze and build machine learning models to predict defective tires and identify the parameters for the same.
Domain	Manufacturing - HV
Skills	Machine Learning, Python, H2O Driverless AI, Machine Interpretability
Project No. 3	Display Picture Verification (Nov 2019 – May 2020) Data Modelling on images to implement the following modules: Cartoon Detection, Facial Landmarks Detection, Face Angle Detection, Emotion Detection.
Domain	Internal Project - HV
Skills	Python, Scikit-learn based models, Pandas, Numpy, Image Processing(OpenCV), Dlib.
Project No. 4	Face Recognition based Access Control (Nov 2019 – Jan 2020) Managed and reviewed app development for a face recognition based door control. Built a node-red server to interact with RPI in real-time and open/close the door.
Domain	Internal Project - HV
Skills	Node-Red, Python, REST-APIs, Raspberry PI
Project No. 5	Alexa Integration with Mirai (Demo Lab) (Aug 2019 – Sep 2019) Train Alexa to interact with users to give overview of Mirai and demo which are set up in the lab. It could be used to get real-time values from sensors in the demo setups and bring real-time charts of sensor data.
Domain	Internal Project - HV
Skills	Serverless, Alexa Developer Console, AWS lambda, Python, Django, Node-Red
Project No. 6	ZenVAS: Zensar Visual Analytics System(May 2019 – July 2019) ZenVAS is a dashboard which provides plug and play interface to provide visual analytics like Emotion Recognition, Age Detection etc on videos or images.

Domain	Internal Project - Zenlabs
Skills	OpenCV, Machine Learning, Artificial Intelligence, Python, Django

Project No. 7	ZenCruise: Self Driving Golf Cart (Sep 2018 – May 2019) ZenCruise enhances the client experience which consists of a smart voice assistant with a personalized experience to give a tour of Zensar Main Campus.
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Domain	Internal Project - Zenlabs
Skills	OpenCV, Machine Learning, Artificial Intelligence, Python

Project No. 8	Presence Insights Analytics Web App (Sep 2018 – Oct 2018) The Presence Insights solution is an analytics dashboard that helps in performing analysis on foot-fall in a store i.e which areas are visited more. It also keeps a record of the number of people in a place at any particular time of the day.
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Domain	Retail - Client
Skills	OpenCV, Machine Learning, Django, Python, RestAPIs, MySQL.

Project No. 9	Face Recognition based Surveillance and Attendance System (Mar 2018 – June 2018) The face recognition solution identifies people entering or leaving the building. It logs the entry and exit time of people in an organization and identifies the unknown people and alarms the respective authorities. People can be trained for recognition over a web-app.
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Domain	Internal Project, Smart Surveillance - Zenlabs
Skills	OpenCV, Machine Learning, Django. Python, RestAPIs, MySQL

Project No. 10	ZenNavi: Indoor Navigation App (Jan 2018 – Mar 2018) The ZenNavi solution consists of the indoor tracking and navigation of items using iBeacons and WiFi. using triangulation, the indoor positioning was achieved, and using a pedometer algorithm, the tracking and navigation is done.
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Domain	Retail - Zenlabs
Skills	Beacons, WiFii, RestAPIs, HTML, CSS, Javascript, Thingspeak

Project No. 11	Wireless Obstacle Avoider Robot (Jan 2018 – Feb 2018) Integrating an Obstacle Avoider robot with Thingworx IoT Platform and controlling it over Wifi (remotely) using a dashboard made using the thingworx platform.
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Domain	Internal Project - Zenlabs
Skills	NodeMCU, Thingworx, Sensor Fusion, RestAPIs

UG Project:

Page Flipper using Eye and Voice Tracking for People with Disability (PwD) :

A disabled person can control a mechanical page flipper using his eye gestures and voice commands to turn the pages of the book left or right. We also developed an e-book version with the same functionality.

Video is available at <https://www.linkedin.com/feed/update/urn:li:activity:6440985008139276288>.

CO-CURRICULAR

- Participant in the **CSR activities at Zensar**.
- Stood **First** in B.tech **Final year project**, developed a **Page Flipper for people with disabilities**.
- Took part in **Hack and Roll Indore Hackathon**, organized by Ford.
- Participated in an inter-college **dance** competition.
- Stood **First** in the **intra-college physics project** (Made a mini-refrigerator).