Hemant Singh

Bachelor of Technology
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EDUCATION

NIT JAIPUR
Bachelor of Technology
2013 - 2017
CGPA : 8.11/10

KENDRIYA VIDYALAYA NO 1
Class XII
Aggregate : 95.60%
Class X
CGPA : 9.6/10

LINKS

LinkedIn:// hemantsingh-ee1332

CERTIFICATIONS

Data Science and Machine Learning in Python : Certified by Zigsaw Academy
LoRa - LPWAN technology - BroadTrack

COURSES

UNDERGRADUATE
Communication systems
Digital Signal Processing
Signals and Systems

ONLINE COURSEWARE
Intro to Machine Learning - Udacity

SKILLS

TECH
LANGUAGE
Python • C# • C
Familiar:
Java• C • Shell
SOFTWARE
Eclipse • Spyder • Jupyter Notebook • Arduino IDE
HARDWARE
Arduino • ESP8266
OS
Windows • Linux

WORK EXPERIENCE

NOKIA NETWORKS
July 2017 - Present | Noida, India
• Joined as GET (Graduate Engineer Trainee) in Nokia's Global Services Team
• Currently Involved in development of in-house Integration layer for Smart City Applications. Integration layer provides unified integration point for multiple type of subsystems.
• Integration layer is based on Java framework exposes WebServices (RESTful APIs or SOAP based) and Websocket interface to connect to various subsystems (subsystems includes IoT platform, Video Management System, First Responders etc.)
• Played the role of Developer and integrator in successful delivery of Nokia's first Smart and Safe city PoC for Customer
• Keys use cases demonstration : License Plate recognition , Red Light violation , Street Fight detection , Blacklisted Face Recognition , Smart Light control and Air quality monitoring via Libelium Air Sensor.

Key Areas of Work
• Developing and testing REST and SOAP based Webservices • Developing HTTP, Websocket based adaptors • Hands-on experience in working with IoT devices and onboarding and controlling them over the Web

KEY UNDERGRADUATE PROJECTS

A SMART ANIMATRONIC HUMAN FACE | Final year B.Tech project
Dec 2016 - May 2017
• Developed a personal assistant robotic face that can interact with the user and respond to commands with the help of audio-visual support system.
Key features includes :
• 3D printed facial parts made out of ABS material
• Voice command based motion (eg. surprise, laugh, turn left)
• Human face detection and recognition
• Real-time face tracking
• Audio and visual based question-answering system
• Hardware was interfaced with Raspberry Pi and programming was done in Python on a Linux based machine.

IOT BASED DIGITAL FARMING | GE Edison Challenge 2016
Jan 2016 - March 2016
• Designed and developed an automatic irrigation system based on real-time monitoring of field using sensor node, WSN and Android app interface.
• Used ESP8266 Wi-Fi module to send the sensor data to ThingSpeak platform over the Internet.
• Selected in top 5 teams based on working prototype in the finals of GE EDISON CHALLENGE 2016 held at GE India Technology Center, Bangalore.