

PRASHANT ARYA

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ABOUT

As a skilled Software Developer with extensive experience, I excel in designing, installing, testing, and maintaining software systems. My diverse skill-set shows great promise, and I'm proficient in various platforms, programming languages, and embedded systems. I have hands-on expertise in Machine Learning and Artificial Intelligence Techniques. I am not only capable of self-managing during independent projects but also thrive as a collaborative team member, contributing to productive teamwork.

EDUCATION

University of Nottingham, MSc Computer Science with Artificial Intelligence 2022-2023

Relevant Coursework: Machine Learning, Cybersecurity, Big Data Analytics, Malware Analysis

Dissertation: Driver Fatigue Detection using Machine Learning.

Jaypee University of Information Technology, Solan 2015-2019

Bachelor of Technology in Electronics and Communications

GPA: 7.4 (74% According to University conversion)

Seth M.R. Jaipuria School, Lucknow 2014-2015

Relevant Subjects: Computer Science (100/100 and received a gold medal from the school)

Percentage: 88.75 %

Seth M.R. Jaipuria School, Lucknow

Relevant Subjects: Computer Science (98/100)

Percentage: 88.8 %

WORK EXPERIENCE

Cognizant Technology Solutions

Kolkata, India

Associate (Software Engineer)

October 2019 - Aug 2022

- Worked with Voya Financial in upgrading and deploying application updates and remediation.
- Collaborated on all stages of systems development lifecycle, from requirement gathering to production releases.
- Closely worked with the clients in gathering the requirements and post and pre-production release validation.

Reliance Jio

Lucknow, India

Network Intern

June 2018 - August 2018

- Worked in Network Team to setup and digitally sign new signal towers in East Uttar Pradesh.
- Automated the process of digital signature of certificates using Python.

A-Set Training and Research Institute

New Delhi, India

Research Assistant

May 2017- August 2017

- Worked with Essar Steel to automate the steel coil production facility.
- Used Arduino and PLC development boards to control the hardware and the GUI used Python Flask framework.

SKILLS

Programming Languages: Python, Java, C, C++, Embedded C, MATLAB, JavaScript, CSS

Frameworks and Tools: MS Excel, Apache Spark, Jupyter Notebook, Pandas, NumPy, TensorFlow, Scikit-Learn, Flask, DiscordPy, OpenCV, Selenium, Eclipse IDE, Visual Studio, MongoDB, Jenkins.

Other: Artificial Intelligence, Machine Learning, Data Analysis, Data Visualization, Trouble Shooting, Root Cause Analysis

Languages: English, Hindi

PROJECTS

- **IoT Based Assistant Robot**

An IoT based smart assistant robot which can be used for live video surveillance of our home and its movement can be controlled from anywhere using a GUI. It also has a feature for medicine reminder for old people and features for Home Automation using Speech Commands. It can accept speech commands and reply the answers to queries using Voice.

This project is implemented using Python Flask and Arduino and Raspberry Pi.

- **Jarvis**

An ecosystem comprising of a web GUI, Minecraft Server, Discord Bot and NLP module which work in connection with each other for entertainment and security purpose. The web GUI displays the related information from each module, has Home Automation features and shows a live video feed from a camera with face recognition. The Discord Bot runs on Discord Servers as a normal entertainment and utility bot and has a feature which is used to monitor the Minecraft server. The NLP module uses LSTM to work as a Brain and works as a chatbot trained on Cornell Corpus to reply to user messages on Discord and Minecraft.

Each module is connected using socket connection.

The project is implemented using Python and uses DiscordPy, Flask, TensorFlow, OpenCV and runs on Raspberry Pi.

- **Soil Analyser**

A prototype project that helps us in determining what to grow in a soil sample by checking the climate of the place and the soil nutrients.

This project was implemented in Raspberry Pi and used Python Flask.

This project was later updated to be compatible on Intel Edison Board.

CERTIFICATIONS

- Machine Learning by Andrew Ng, Coursera
- DeepLearning.AI Professional TensorFlow Developer, Coursera

ACHIEVEMENTS

- 2nd in Spotlight Event – ECE at Cognizance 2016, IIT Roorkee.
- 2nd in Startup Protothon 17 by H.P. Centre Entrepreneurship Development (HPCED), Wagnaghat.
- 4th in JUIT Hackathon by ACM-JUIT, Wagnaghat.

POSITIONS OF RESPONSIBILITY

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| • Vice Chairperson, ACM Chapter, JUIT | January, 2018 – July, 2018 |
| • Electronics Team Head, ACM Chapter, JUIT | January, 2017 – January, 2018 |
| • Campus Ambassador of GeeksforGeeks | January, 2016 – June, 2017 |
| • Campus Ambassador of I-Medita | January, 2016 – July, 2016 |

EXTRA-CURRICULAR

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| • Volunteer in Fourth International conference on Parallel, Distributed and Grid Computing by IEEE | |
| Conference Record Number: 38036 | December, 2016 |
| • Event Volunteer and organiser of Startupweekend, Solan by techstars | September, 2018 |
| • Member of Rotary club of Shimla | |
| Rotary ID: 3080 | January, 2016 – January, 2017 |