PRASHANT ARYA

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ABOUT

A skilled and results oriented software engineering professional and an excellent team player with positive attitude. Having varied experience, I am quite adept in designing, installing, testing, and maintaining software systems. My diverse skill-set combined with dexterity in working on various platforms, programming languages, and embedded systems makes me an essential resource person.

Have hands-on expertise in Machine Learning & Artificial Intelligence Techniques and detailed knowledge of machine learning evaluation metrics. With strong mathematical skills, helpful in predictive analysis, data mining and computational statistics, I am not only capable of managing independent projects but also thrive as a collaborative team member, contributing to productive teamwork.

EDUCATION

University of Nottingham, UK *MSc Computer Science with Artificial Intelligence*   *2022-2023*
Relevant Coursework: Machine Learning, Cybersecurity, Big Data Analytics, Malware Analysis
Dissertation: Using CNN To Detect Driver Fatigue and Evaluating the Effects of Augmentation on CNN Performance.

Jaypee University of Information Technology, Waknaghat, Solan   *2015-2019*
Bachelor of Technology in Electronics and Communications
GPA: 7.4 (74% According to University conversion table)

Seth M.R. Jaipuria School, Lucknow.   2014-2015
Class: XII, Indian School Certificate (ICS Board)
Relevant Subjects: Computer Science (100/100 and received a gold medal from the school)
Percentage: 88.75% (Best of 4 - English, Computer Science, Mathematics & Chemistry)

Seth M.R. Jaipuria School, Lucknow.   2012-2013
Class: X, Indian Certificate for Secondary Education (ICSE Board)
Relevant Subjects: Computer Science (98/100)
Percentage: 88.80% (Best of 5 - English, Computer Science, Mathematics, Science & Hindi)

WORK EXPERIENCE

Cognizant Technology Solutions, Kolkata, India.
Associate (Software Engineer)   *October 2019 - Aug 2022*
- Worked with a US based retirement, investment and insurance company to upgrade and deploy application updates, remediation with the latest security patches.
- 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.
- Trained the new joinees of the project with the workflow of the project for smoother handover of responsibilities.

Reliance Jio, Lucknow, India
Network Intern   *June 2018 - August 2018*
- Worked with Network Team to setup and digitally sign new signal towers in East Uttar Pradesh.
- Automated the process of digital signature of certificates using Python and pyautogui.
- Provided complementary python training to senior members of the team to maintain the software created.

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, COBOL, JCL, SQL.

Frameworks and Tools: MS Excel, Apache Spark, Jupyter Notebook, Pandas, NumPy, TensorFlow, Scikit-Learn, Flask, DiscordPy, OpenCV, Selenium, FastAPI, Eclipse IDE, VS Code, MongoDB, Jenkins, Power Bi, Tableau, Heroku.

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

Languages: English, Hindi

IELTS: Overall Band Score - 7.5, CEFR level – C1

PROJECTS

- **IoT Based Assistant Robot**

An IoT based smart assistant robot which can be used for live video surveillance. Its movement can be controlled from anywhere using a GUI. It features Home Automation using Speech Commands and additionally provision of setting reminders by patients and elderly for medicines. 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. This project was a part of my undergraduate final year project.

- **Jarvis**

An ecosystem comprising of a web GUI, Minecraft Server, Discord BOT and Natural Language Processing (NLP) module working in association for entertainment and security purpose. The web GUI displays the related information from each module, featuring Home Automation, displaying live video feed from a camera with face recognition. The Discord BOT runs on Discord Servers as a normal entertainment and utility BOT, monitoring Minecraft server.
The (NLP) module uses Long Short Term Memory networks (LSTM), a variety of Recurrent Neural network (RNNs). Trained on Cornel Corpus and working as a Chatbot brain to responds 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 to determine the plant variety best suited to grow in a soil sample by analysing the prevalent weather and soil characteristics. The project was implemented in Raspberry Pi, using Python Flask, subsequently upgraded to be compatible with 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), Waknaghat.
- 4th in JUIT Hackathon by ACM-JUIT, Waknaghat.

POSITIONS OF RESPONSIBILITY

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

- 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