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KRISHNARANJANI R

Machine learning Engineer

To work with the organization that is highly dynamic in the field of research and development, expose myself to a creative and challenging situation and to make myself better through experience and lesson

EDUCATION

Master of Engineering (M.E), Computer Science & Engineering

Velalar College of Engineering and Technology

- Grade: 98.9%. Cumulative GPA: 9.39
- Dissertation: Immersive Learning

Bachelor of Engineering (B.E), Computer science & Engineering

Velalar College of Engineering and Technology

- Grade: 93.9%. Cumulative GPA: 9.39 (First Class with Distinction)
- Dissertation: GPS Controlled Robotic Vehicle for Environmental Impact Analysis.

SKILLS

- **Languages:** Python, C++, C, JAVA, R
- **Framework:** Bootstrap, Django, Arduino, Node.js, Matlab
- **Tools:** Keras.io, TensorFlow, PyTorch, Scikit learn, Linux, Eclipse, Blender.
- **Research Interests:** Explainable AI, Machine Learning, Deep Learning, Machine learning in medicine.

PROFESSIONAL EXPERIENCE

Madras Scientific Research Foundation

Director & Research Fellow   2020– Current

- Researched and developed unique research into Artificial Intelligence
- Applied research technique to determine effectiveness of Machine learning interventions
- Streamlined research processes to meet tight deadlines for multiple projects
- Train and mentor Students in Python tooling and machine learning practice
- Designed and developed analysis systems to extract information from large scale data

- Introduced team to best practices in development and data analysis
- Provided analytics and computational support for research institution

WORK EXPERIENCE

Signifide   **2020-06 – 2020-07**

Data Analytics Intern

- Optimized system and platform performance capabilities in most efficient, practical way possible.
- Worked on data verification and validation.
- Developed metrics derived from raw company data to track improvements in organizational efficiency.

Zelight Robotics   **2018-05 – 2020-06**

In plant Training

- Worked on hardware and software systems for robotics Design
- Hands on experience and familiarity with Networking systems
- Experience developing, implementing, managing robotic, autonomous systems projects
- Assisted in Troubleshooting, diagnose and fix real time software based on analysing integrated system behaviour

TEACHING EXPERIENCE

Course: Python Programming   **Private Tutor (2020 - Present)**

- Tutored rural area students on python Programming
- Effectively carried out specific curriculums for students
- Train and mentor Students in Python tooling
- Provided helpful teaching supports to students unable to attend school
- Providing individual and small group tutoring to students

Course: Machine Learning   **Private Tutor (2020 – Present)**

- Tutored students on python and machine Learning Concepts
- Effectively carried tutoring on data verification and validation
- Assisted students with questions and getting answers in a professional and helpful manner
- Designed assignments to help students understand the concept and improve problem solving capability

PROJECTS

GPS Controlled Robotic Vehicle for Environmental Impact Analysis

 – Field study, prototype and design, Internet of Things

- Designed an automated vehicle for monitoring environmental Parameters - Navigation and Control, IoT Gateway, Visualization.
- Robotic vehicle is designed in a way to provide autonomous movement which is controlled by an individual via android application

Edification Gateway

 – Android Development, Machine Learning

- Designed and developed an android application that give a complete guidance to students and graduates about their career opportunities

Modeling Cognitive System with Applied Machine learning in Additive Manufacturing using Fifth Generation Computer Systems

– Machine Learning, Additive Manufacturing

- This research propounds a scheme of emotion prediction from Carnatic Music with its Elements
- The model emphasizes on distinguishing the attribute of distinct emotions from Carnatic music and imparts the evident emotion as a 3-Dimensional object.

Medicine tracking with IoT System

– DevOps, Internet of Things

- Medicine tracking system enables medical caretakers or clients to determine timing to take pills, and the service times for every day.

PERSONAL PROJECTS

- Material Point Method for simulation of nozzle flow in 3D print - Python
- Defence on cybercrime against Women - Analytics
- E Commerce for Online Medicine Shopping

TALKS

1. Datapirates Club 2019 (Erode, TN, India**): Data Analysis and Data Security**
2. VCET 2019 (Erode, TN, India): **DNA Digital Data Storage**
3. Magnumpous (India): **Refresher series "Programming"**

HONORS AND AWARDS

- Best outgoing Student Award
- Best project design Award
- Best Performer in INTERNATIONAL SPACE SCIENCE COMPETITION 2020
- Won Second prize in Project Expo in MechFest-2016 "EDIFICATION Gateway" academic year 2019-2020 with cash prize of 5,000 INR.
- Participated in **Edu sat Program Conducted By IIRS- Indian Space Research Organisation** and Completed 5 Outcome Programmes.

SOCIAL ENGAGEMENTS

1. Member at **TOASTMASTERS CLUB** - during the academic year 2018-2019
2. Member at **ENTREPRENEURSHIP DEVELOPMENT CELL**- during the academic year 2018-2019
3. Designated **SECRETARY (PRESIDING OFFICER) IN DATA PIRATES CLUB** -– during the academic year 2019-2020
4. EXECUTIVE MEMBER in **MAGNUMPOUS** – during the academic year 2019-2020
5. EXECUTIVE MEMBER in **WOMEN EMPOWERMENT CELL** (WEC) – during the academic year 201-2020

CONFERENCE AND WORKSHOPS

1. Participated and presented a paper titled" Defence on Cyber Crimes Against Women and Laws in India" the "National Conference on Big Data Analytics for Cyber Intelligence and Defense on Cyber-crimes against Women "held on 15th, March 2019, at Bannari Amman Institute of Technology, Sathya Mangalam sponsored by National Commission for Women (NCW) New Delhi.

2. Participated and presented a paper titled "GPS Controlled Robotic Vehicle for Environmental Impact Analysis" in the "National Conference on Computing Communication Technology and Science "(NCCCTS'20) held on March 6th 2020, at Muthayammal College of Engineering, Rasipuram.

3. Participated in Industry Standard 4.0- Disruptive Technology Summit on 23th and 24th March-2018 by BIT.