KRISHNA PRIYA
Software Engineer

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A motivated and driven software engineer skilled in python programming and machine learning.

EDUCATION

Year	Institute	Qualifications	CPI/%
2020-2022	Indian Institute of Technology, Kanpur	M.Tech.(EE)	8.29
2014-2018	Army Institute of Technology, Pune (SPPU)	B.E.(ECE)	7.42
2014	FIITJEE Junior College, Hyderabad	Class XII (BIEAP)	93.70%
2012	Army Public School, Bolarum	Class X (CBSE)	10.00

WORK EXPERIENCE

Software Engineer at Cogoport, Mumbai,India *Aug 2022*

- Working as a Python Backend Developer in the organisation and developed an automation system to track, collect and analyze freight operations data.
- Designed multi - classification system for mails using Natural Language Processing and created APIs using fastAPI.
- Built system for data extraction from documents using Object Detection and Optical Character Recognition.
- Implemented authentication and enabled notifications system for user profiles.
- A team player in the Machine Learning group of the organisation

Software Engineer at Larsen & Toubro Infotech, Bangalore,India *June 2018 - April 2019*

- Worked as a Software Engineer to optimize Machine to Machine communication for field sensor to cloud configuration in the Automobile and Industrial Automation domain.
- Worked on system development for fleet management to retrieve and analyse sensor data using IoT devices as Dell edge gateway.

PROJECTS

- **Fringe Pattern Normalization using Deep Learning Method** *2021*
  The normalization of fringe patterns is crucial in the field of interferometry. The objective of the project was to overcome the limitations incurred during fringe analysis under the presence of external noise.
  CNN (Convolutional Neural Network) V-net model was implemented, with a mathematical model used as a comparison benchmark.
  The performance of DCNN was assessed with noise corrupted fringe patterns of size 128 x 128 pixels with various noise levels, generated by different kinds of phase distributions.
- **Achieving Time Synchronization using MQTT v/s CoAP for Automation Systems** *2018*
  Worked in a 3-membered team to design a home automation system over a server client model in Python using Raspberry Pi boards. Performed transfer of sensor acquired data using the two IoT protocols, MQTT and then CoAP for a comparative analysis of time performance to determine the protocol that provides better time synchronization for low power sensor modules.

Relevant Courses

Data Structures & Algorithms | Object Oriented Programming | Machine Learning | Deep Learning | Linear Algebra | Probability & Statistics | Computer Networks | Version Control | Industrial Internet of Things Database Management System | Image Processing

Technical Skills and Trainings

- **Programming Skills:** Python | C++ | C | CSS | JavaScript | MATLAB | SQL | Git | Julia | Latex
- **Software & Libraries:** PostgreSQL | Spacy | Pandas | Numpy | React | TensorFlow | Scikit-learn | FastApi | Docker
- **Mathematics & Computation:** Linear Algebra | Probability & Statistics | Advanced Calculus | Numerical Methods

Positions of Responsibility

- As a Software Developer, undertook the project to automate the freight operations and further optimized the same with the application of Machine Learning.
- Teaching Assistant at IIT Kanpur, India for the academic session, 2021 - 2022. *Aug 2021 - April 2022*

Achievements

- Recipient of AWES scholarship for four consecutive years of under-graduation for academic excellence. *2016*
- Received 98 percentile score in GATE (ECE) 2020 Examination. *2020*
- Secured Third Position in 5K Run at IIT, Kanpur. *2022*