

# SHREEDHAR KODATE

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## Skills

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**Data Science** | *collection, cleaning, loaders, multi-processing, image processing, visualization, story-telling, scaling*  
**Python Libraries** | *Pandas, PyTorch, TensorFlow, Sklearn, Matplotlib, NumPy, Interact, Seaborn, Django*  
**Tools** | *PyCharm, SQL, Jupyter Notebook, GitHub, GCP, AWS, Azure, RoboFlow, DataRobot, AutoML, SSH*  
**Algorithms** | *GraphML, Transformers, Vision Transformers ViT, CNN, RNN, UNet, UNETR, GPT, YOLOv7, PSPNet, ResNet, DDPG, A3C, RandomForest, XGBoost*  
**Problems** | *Time Series Forecasting, Image Classification, Object Detection, Instance segmentation, Question Generation, Question Answering, Text Classification, Robot Path Finding, Multi-agent Reinforcement Learning,*

## Education

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**Worcester Polytechnic Institute** | *M.S. in Data Science (AI/ML)* | **Aug. 2021 – May. 2023**

**Indian Institute of Science** | *M.Tech. in Computer Science, Advisor: Dr. Shalabh Bhatnagar* | **Aug. 2016 – Dec. 2018**

## Accepted Papers

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**Intelligent Coordination among Multiple Traffic Intersections Using Multi-Agent Reinforcement Learning (NIPS 2019)** **Dec. 2019**  
*Advisor: Dr Shalabh Bhatnagar, Paper: <https://arxiv.org/abs/1912.03851>* *Vancouver, BC, Canada*

## Relevant Coursework

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**Computer Vision, Deep Learning, Reinforcement Learning** | Natural Language Processing, Game Theory, Business Applications, Multi-modal Machine Learning, Statistics, Data Science and Analytics, Probability,

## Experience

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**Worcester Polytechnic Institute** **Jan 2023 – Present**  
*Teaching Assistant - Data Science* *Worcester, MA*

- Got selected for being a TA for the Computational Data Intelligence course at WPI along with the tuition scholarship.

**Openwater.cc (startup)** **Aug 2022 – Dec 2022**  
*Machine Learning Intern - Applied Research* *San Francisco, CA*

- Trained a self-supervised **One-shot** learning based **Head Segmentation** model with **0.75** Dice similarity score. This model will help deliver MRI-based treatments for brain-related illnesses. It removes the current dependency on CT scan and **prevents the risk of cancer** due to ionization.
- Working on a high-impact project changing more than **1 million** lives by helping detect **stroke in the first response**.
- Auto-generating labels by one-shot data augmentation for MRI segmentation dataset, and implementing UNETR, a **Vision Transformer (ViT) based** model. Also worked on a time series transformer model for stroke detection.

**Quantiphi Inc.** **May 2022 – Aug 2022**  
*Machine Learning Intern - Applied Research* *Marlborough, MA*

- Implemented **Graph Machine Learning** and GPT, T5, Transformer based algorithms to large Knowledge Graphs for automatic multi-hop Question Generation. This helps to generate **100s** of meaningful questions from every single document which further enhances the document understanding for Question Answering.

**Yantriks India Pvt. Ltd. (startup)** **Jan. 2019 – Aug. 2020**  
*Machine Learning Engineer* *Bengaluru, KA, India*

- Designed and implemented end-to-end ML systems for Global Returns Forecasting, Dynamic Capacity Planning, etc.
- Increased inference performance by **70%** and decrease running cost by **20%** for deployment code by bootstrapping.
- Implemented parameterized code to enable **Neural Architecture Search (NAS)** driven by JSON config.
- **Mentored an intern** for 4 months while implementing EDA and ML data flow pipelines for Anomaly Detection.

## Projects

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Please visit: <https://krishnashreedhar.github.io/>

## Extracurricular

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**President, Origins Club** | A club that promotes holistic wellbeing by increasing spiritual quotient.