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Ruturaj Ramchandra Shitole

Portfolio: [rutu-sh.github.io](https://github.com/rutu-sh)
github.com/rutu-sh
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WORK EXPERIENCE (4 YEARS)

Software Engineer / Synchron

DataLab

Jan 2022 — Dec 2023

Bangalore, India

- Member of the Synchron.AI division.
- In charge of developing and maintaining microservices and infrastructure for Synchron's AI/ML platform.
- In charge of designing and implementing workflows for advanced analytics.

Associate Software Engineer / Synchron

Analytics BI and DataLab

Jan 2021 — Dec 2022

Bangalore, India

- Developed microservices for internal use and tools for client use.
- Developed end-to-end pipelines for statistical and ML use cases and generated useful dashboards for business analysis.
- Worked closely with product owners and experienced the evolution of a product right from requirement-analysis to a deliverable.

Intern / Synchron

Analytics BI

Jan 2020 — Dec 2020

Bangalore, India

- Developed backend for Business Intelligence tools.
- Built and deployed several backend services over AWS.
- Learned and experienced project management, software development life cycle and code organization and maintenance.

EDUCATION

Bachelor of Engineering in Computer Science and Engineering, Bangalore University

72.17%, Distinction

2016 — 2020

PROJECTS

Offline Handwritten Kannada Character Recognition Using Manifold Smoothing And Label Propagation

Bangalore University

Aug 2019 — Sep 2020

Bangalore, India

- Developed a framework for recognizing handwritten Kannada characters.
- Utilized a combination of feature regularization, augmentation techniques and label propagation to reduce reliance on training data, achieving **99.13% accuracy**.
- Project URL: <https://github.com/rutu-sh/offline-handwritten-kannada-character-recognition>

COMPETITIONS

ACM ICPC Asia Regional, IIT Kharagpur

Bangalore University

Dec 2019

Bangalore, India

- Represented the college at 2019 ACM ICPC Asia Kharagpur Regional at IIT Kharagpur
- Secured 61 rank

IEEE UVCE Summit-2019

Bangalore University

Mar 2019

Bangalore, India

- Presented ComPhy: Computer Enabled Physiotherapy System.
- Proposed an architecture for a system for physiotherapy using Computer Vision and Range-of-Motion analysis.
- Secured Second Place

E-Yantra Robotics Competition, IIT-Bombay

Bangalore University

Oct 2016 — Apr 2017

Bangalore, India

- Participated in E-yantra 2016 [Theme: Cross A Crater]
- Qualified to Stage-2
- Programmed the Firebird-V robot with a mechanical arm developed using servo motors
- Detected the arena using Computer Vision and calculated the moves for the robot to place the boulders and cross the crater.
- URL: <https://github.com/ceevaaa/Eyantra-2016>

SKILLS

Programming Languages

Python, C, C++, SQL

Tools and Frameworks

FastAPI, Linux, Docker, Kubernetes, AWS

Communication

English, Hindi, Marathi