

Parth Shrikant Kalkar

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Computer Science student with a Data Science major at Innopolis University, currently looking for internship, part-time/full-time opportunities. I have a wide range of experiences in MLOps, software development, software design as well as I am experienced in working with cross-cultural teams. A keen learner of computer science, ML, AI, optimization, business analytics and passionate about solving business problems as well as social problems using the technology.

Education

Innopolis University (2019-2023)

Bachelors in Computer Science
Major - Data Science
Minor – IT Entrepreneurship

CGPA 4.88/5

Professional Experience

Huawei Technologies Co. Ltd

Nov 2021 – Present

Technology Project Charter

Global technological solutions provider

- Developing system designs to turn some available digital artifacts into metrics, especially those that include natural language or graphics.
- Creating a user interface in Ruby to manage the data collected from various sources and making it interact with a machine learning model to find the anomalies
- Enhancing the company's long term business capability by increasing the success rate of software projects by earlier detection of management bottlenecks and resolving them

Languages

English(Native), Hindi(Native), Russian(Beginner)

Projects

Data Science and Machine Learning

- Fake face generation using GAN
- Malware Detection using Ensemble Learning
- Calculating human iris center using CNN
- Loan application approval using logistic regression
- Data Imputation using Linear/Polynomial Regression
- Music creation by the implementation of Recurrent Neural Networks
- Other projects related to recommender systems, anomaly detection, online learning, Map-reduce, etc.

Movie Recommendation System

Oct 2021 – Dec 2021

- Leveraged Spark to build a movie recommender system in Scala.
- Performed Model-Based collaborative filtering and computed the result on a distributed Hadoop cluster

Webapp for Russian language learning - Rus_Learn

Aug 2021 – Oct 2021

- Created a web app using Python(Django) backend and ReactJS frontend
- Added third party APIs for payouts and google authentication

Webapp for Video Chatting

April 2021 – May 2021

- Created a video chatting app using Python(Django) backend and ElectronJS frontend
- Used the TCP protocol over the usual UDP protocol
- Compared the pros and cons of this implementation

Other Projects

- AI-Art: Implementation of a genetic algorithm to develop some filter for a picture
- Covid-Game-AI: Implementation of 2 variants of Backtracking searching based on DFS and A* algorithm
- Database comparison: Comparison of PostgreSQL and Google FireBase, migration of data from Postgres SQL to Google FireBase
- InnoGuides(Android): An Android app for tourists and citizens of Innopolis to know about the ongoing events, restaurants, clubs, supermarkets, bus schedule, sightseeing spots, etc
- Computational Practicum(Java): Implementation of Numerical methods to solve differential equations and to compare the errors obtained to check the precision of that method.

Awards and Achievements

1. [Democrat of the year](#) 2021 & [IU Diamond](#) 2021
2. International Programming Proggy-Buggy Contest 2021, Finalist by [DataArt](#)
3. [Huawei Challenge 2021](#), Finalist – among 120 teams from all over Russia and CIS countries
4. [ICPC](#) 2019 Quarter Finalist - Top 5 among Southern Volga region
5. Digital SuperHero Hackathon 2020 by [Kazan Digital week](#), Finalist - Top 5 among all the teams
6. On-Start Hackathon 2021, Finalist by [START](#) - top 3 in the task 1 category

Skills

Programming Languages - C++, Java, R, MATLAB, SQL, Simulink, Python

Machine Learning/ Deep Learning - Pandas, TensorFlow, Numpy, Keras, PyTorch, Scikit-Learn, Matplotlib, Seaborn OpenCV

Big Data - Apache Hadoop, Apache Spark, MapReduce

Other - Docker, Vagrant, Ansible, Business analytics, Product design, Business development

Internships

Frontend Developer, Innopolis University

May 2021 – July 2021

Developed an interactive UI for a Document Recognition System using React(js) at Software Development Center & Developers Community internship of Innopolis University

Python Developer, Innopolis University

Feb 2021 – April 2021

Developed a parser for KRL (Kuka robotic language) to python and an interactive UI to simulate the working of the industrial KUKA robot using python and Vue (js) at the Industrial Robotics lab of Innopolis University

Robotics Engineer, Innopolis University

May 2020 – July 2020

Developed a single-axis jumping robot using cable-driven actuators along with Numerical Simulation to obtain stability and efficiency at the lab of Autonomous Vehicles and robots of Innopolis University

Volunteering Experiences

- [Google Developer Student Clubs](#) core team member & Campus Ambassador for the [Entrepreneurship Cell of IIT Kanpur](#)
- Volunteer for the orientation of freshmen at Innopolis University called the [InnoBootCamp 2020](#) and Project Manager for [InnoBootCamp 2021](#), Also a Mentor at [Tutorship program 2020](#)

