

VISHWAS PURI

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EDUCATION

Birla Institute of Technology and Science, Pilani
M.Sc. Physics & B.E.(Hons.) Mechanical

August 2018 - Present
CGPA : 6.84

SKILLS

Django REST, Flask, NodeJs, Serverless Framework, DevOps(Platforms: AWS, DigitalOcean, Technologies: Docker and Kubernetes, Continuous Integration, Git/Github), Server side Development(With NodeJs, Golang & Python), Databases(SQL, MongoDB, Neo4J), Machine Learning, Computer Vision, Data Science, Python3, JavaScript, Data Structures, C++, Image Processing

ELECTIVES

Probability and Statistics, Mathematics-2(Complex Analysis and Linear Algebra), Quantum Information and Computation, Machine Learning, Computer Programming, Computational Physics

WORK EXPERIENCE

Variety Innovation Ventures Limited, Gurgaon(Industrial Automation)

Software Developer Intern

June 2020 - July 2020

- Implemented backend for track and trace system for assembly lines using Node.js along with managing cloud infrastructure
- Programmed edge device(Microprocessor) to process data and control the physical end-point by implementing pre-decided constraints
- Successfully built a prototype for track and trace system in 2 months in a team of 3 people

Hertztech Solutions Private Limited, Chennai(Automobile Research and development)

Data Science Intern

May 2020 - June 2020

- Created a model for the Powertrain Mounting System(PMS) with an objective to find the maximum force transmitted from the frame to the PMS
- Used Bayesian Optimization to find the optimum position of mounts in order to minimize the force transmitted from frame to PMS. After the optimization, I was able to reduce the force transmitted by 40

AWARDS AND COMPETITIONS

Challenge Winners, EUvsVirus | European Commission:

- Organised by the European Innovation Council, a Pan-European Hackathon with over 9000 participants and 2000 teams
- Secured the 2nd position in the Real-time Communication and Prevention challenge for building a contact tracing system

Runners-up, The Resiliency Challenge organized by BU Spark | Boston University:

- The Resiliency Challenge is a nine-week, virtual hackathon, with three-week sprint challenges aimed at catalyzing student innovation
- Our team(CoviFight) came second in the second sprint of the competition

PROJECTS

Socors: Student-run organisation that aims to make the Indian buyer feel safe in the market place

- Developed web application for consumers to purchase goods from local shops based on their location
- Developed web application for sellers to register on the socors platform and control how their shops are shown to the consumers

CoviFight: Machine Learning and Graph Database, COVID-19 Response

- A three-tier contact tracing solution to trace and contain the COVID-19 spread
- Created graph based solution(Using neo4j graph db and Node.js) to predict the probability for a user being infected
- Generated maps with hotspots for what places have virus traces. Regulated selective lockdown for virus containment

Analysis of supervised and unsupervised dimensionality reduction algorithms in R

- Worked on analysing the effect of dimensionality reduction on the accuracy of classification algorithms
- Implemented PCA, SVM, FLD and KNN on the iris dataset to compare their relative accuracy on the dataset