Vishwas Puri

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EDUCATION

BITS Pilani | M.Sc. Physics & B.E. Mechanical Dual Degree — Aug 2018-May 2023

Delhi Public School, Gurgaon | CBSE Board — Apr 2015-May 2017

SKILLS

- **Server-side Development:** NodeJs(ExpressJs), Golang, Python(Django, Flask), Serverless
- **Client-side development:** Vanilla JavaScript, jQuery, HTML/CSS, React
- **DevOps:** Container Orchestration(Docker and Kubernetes), Continuous Integration, Version Control(Git/Github)
- **Cloud Computing with Amazon Web Services(AWS)**
- **Databases:** SQL(PostgreSQL, MySQL), MongoDB, Neo4J, Cassandra, DynamoDB, Redis, ElasticSearch
- **Machine Learning:** Tensorflow, OpenCV, R
- **Miscellaneous:** Apache Kafka, Matlab, GNU Octave, AutoCAD, SolidWorks

EXPERIENCE

Software Developer Intern — Jun 2020 - Aug 2020

Variety Innovation Ventures Limited, Gurgaon(Industrial Automation and IoT)

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

Data Science Intern — May 2020 - Jun 2020

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

- 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
- Minimised the force from frame to PMS 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 9 week, virtual hackathon, with 3 week sprint challenges aimed at catalyzing student innovation
- Our team(CoviFight) secured second position in the second sprint of the competition

PROJECTS

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

- Developed web application(Django) for consumers to purchase goods from shops based on their location in 3 weeks
- 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

- Lead creation of a three-tier contact tracing solution to trace and contain the COVID-19 spread
- Generated maps with hotspots for locations having virus traces. Regulated selective lockdown for virus containment
- Created graph based solution(Using neo4j graph db and Node.Js) to predict the probability for a user being infected

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

POSITION OF RESPONSIBILITY

Committee Member - Placement Unit

- The Committee, comprising a team of six Junior year undergraduate, is recruited by the Placement cell to supervise and manage the whole placement process, and act as a liaison between the corporate world and the student community.