Yash Sharma

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Summary

Everyday i spend time performing feature extraction, logisitic regression, PCA , Naive Bayes, applying ConvNets, ResNets, LSTMs. Asking clear questions, and transparent communication has helped me make substantial contribution in every project that I have been a part of.

Work Experience

Rutgers Center for Cognitive Science

Research Assistant

📅 Oct 2021 – Present   📍 Rutgers University, NJ

- Built experiments to quantify visual decision making in humans (using virtual reality)
- Data analysis in python that resulted in supporting the hypothesis
- Worked with psychologists & experienced inter-disciplinary research

Yoryo Technologies

Software Engineer

📅 Jan 2019 – June 2021   📍 Pune, India

- Led development of optimisation algorithms for solving capacity management constraints, producing 20% savings in logistics cost
- Implemented graph algorithms for vehicle routing, improving resource utilisation from 70% to 95%
- Distributed systems programming for generating large dispatch schedules in parallel
- Data architect for processing supply chain data for organisations in different domains (healthcare, manufacturing, 3PL)

Quark Experiences Pvt. Ltd.

Software Engineer

📅 Jun 2017 - Dec 2018   📍 Pune, India

- Produced **image processing pipeline in C++**, reducing deployment time down from 6 hours to 5 minutes
- Developed machine design approval tool for manufacturers, to detect defects in virtual reality
- One of the lead engineer in creating VR software for remotely view real estate properties in 360 °on web
- Created augmented reality mobile app for visualising textile design (1K+ downloads on Play Store)

Persistent Systems

Software Engineer Intern

📅 Sep 2016 – May 2017   📍 Pune, India

- Simulated cloud environments using CloudSim to evaluate availability/downtime
- Compared speed of data read/write for different data encryption algorithms namely - AES, Blowfish, and RSA

Education

Masters in Computer Science

Rutgers University, New Brunswick

📅 Sep 2021 – Present   📍 New Jersey, USA

- **Working on cross-modal representation learning (ML), extracting correlations between text, video and image data**
- Coursework: Mathematical Foundations of Data Science, Machine Learning, NLP, Algorithms and Data Structures

Bachelors in Computer Engineering

University of Pune

📅 Aug 2013–Jun 2017 📍 Pune, India

Research & Projects

- Modelling knowledge representation about matter through causal inference ↗
- Neural networks from scratch ↗
- Computing entanglement entropy for tripartite states and graph states ↗
- Scaling Language Models:Methods, Analysis & Insights from training Gopher ↗
- Virtual Reality to treat phobias ↗

Technologies

Languages: Python, C++, C#, C
Libraries: numpy, pandas, matplotlib, CUDA, igraph, networkX
Tools: PyTorch, Tensorflow, Git, AWS, SQL
Game engines: Unity3D, Unreal Engine

Awards

- Gold Badge in Problem Solving ↗
- Bronze medals - World CodeSprint 8 & Week of Code 24

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