Yash Sharma

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github.com/yashsharma79

Research Experience

Rutgers SASN and Rutgers NB collaboration

Research Assistant (Advisor: Karl Stratos)

Mar 2022 - May 2022

Rutgers University, NJ

- Natural Language Processing to measure language complexity of speech samples for predicting Alzheimer's disease risk
- Used transformers for constituency parsing and measuring text coherency

Rutgers Center for Cognitive Science

Research Assistant (Data Science and Virtual Reality)

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Rutgers University, NJ

- Data science with numpy and pandas to understand how visual decisionmaking in visual wayfinding works
- Programmed virtual reality experiment for visual decision-making experiments

Professional Experience

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%
- Data architect for processing supply chain data for organisations in different domains (healthcare, manufacturing, 3PL)

Quark Experiences Pvt. Ltd.

Virtual Reality Engineer

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
- Created augmented reality mobile app for visualising textile design (1K+ downloads on Play Store)

Persistent Systems

Software Engineer Intern

Pune, India

• Simulated cloud environments using CloudSim¹⁷ to evaluate availability/downtime. Compared data encryption algorithms

Education

Masters in Computer Science Rutgers University, New Brunswick

 Coursework: ML, NLP, Algorithms and Data Structures, Mathematical Foundations of Data Science, Quantum Computing

Bachelors in Computer Engineering University of Pune

Aug 2013-Jun 2017 ♥ Pune, India

Projects

Cross modal machine learning for video-text representation

Modelling knowledge representation about matter through causal inference ☑

Neural networks from scratch 🗹

Computing entanglement entropy for tripartite states and graph states

Presentations

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Scaling Language Models:Methods, Analysis & Insights from training Gopher 🗹

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