Ravsehaj Singh Puri

Cell: 480-492-4117 | Email: ravsehajsinghpuri@gmail.com | LinkedIn: https://www.linkedin.com/in/ravsehajsinghpuri

EDUCATION

Master of Science in Computer Science | GPA: 3.89/4.00　　　　May 2023
Arizona State University　　　　*Tempe, Arizona*
Bachelor of Engineering in Computer Engineering | GPA: 8.9/10.00　　　　July 2021
Thapar Institute of Engineering & Technology　　　　*Patiala, India*

TECHNICAL HIGHLIGHTS

Languages & Frameworks: Python, C++, C, Scala, HTML, CSS, ReactJS, Spark, AWS, GCP, MySQL, NoSQL, TensorFlow, Pytorch, Apache Solr, Apache Spark, Apache Sedona
Core Skills: Object-Oriented Programming, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Distributed Systems, API Endpoint Development

EXPERIENCE

Graduate Research Assistant　　　　January 2022 – Present
Arizona State University, CogInt Lab　　　　*Tempe, Arizona*
- Working in instruction-driven learning for language modelling in core NLP tasks like natural language generation, inference, translation, classification using State-of-the-Art transformer language models like BERT, BART, T0, T5, RoBERTa and GPT-3.
- Leading two project teams working on Language-Conditioned Imitation Learning for Robot Manipulation tasks.

Software Engineering Intern　　　　February 2021 – July 2021
Eightfold AI　　　　*Noida, India*
- Founding member of the Talent Insights and Analytics team and collaborated with Engineering and Machine Learning team to build the future of Talent Intelligence products for 100+ customers worldwide.
- Worked in a high impact startup environment to build infrastructure from the ground-up to enhance existing analytics workflow to improve efficiency by 50%.
- Built an internal API for skill clustering at scale and developed a tool for the same using *Machine Learning*, *Python*, *HTML*, *CSS*, *Flask* and *ReactJS* and pushed it to production.
- Developed python scripts for automating routine tasks like data extraction, data cleaning and data wrangling using *NoSQL*, *Apache Solr* and *AWS* for insights extraction which helped scale up the team by 4x.
- Restructured and revamped the entire Insights delivery pipeline at Eightfold by building a first-of-its-kind Talent Insights tool to extract and transform global talent data from 1M+ public profiles in a structured format (XLSX/CSV) at scale.

RESEARCH PUBLICATIONS

- [How Many Data Samples is an Additional Instruction Worth?](#)
  Ravsehaj Singh Puri, Swaroop Mishra, Mihir Parmar, Chitta Baral

- [Benchmarking Generalization via In-Context Instructions on 1,600+ Language Tasks](#)
  Yizhong Wang, Swaroop Mishra, **Ravsehaj Singh Puri**, Daniel Khasabi, Chitta Baral et el.

ACADEMIC PROJECTS

Graduate Student - Data-Intensive Systems for Machine Learning　　　　January 2022 – April 2022
Arizona State University　　　　*Tempe, Arizona*
- Implemented large-scale distributed deep graph learning system *DistDGL* on Ethereum blockchain graph across 100M nodes over 4 machines achieving over 3x speedup in comparison to single machine training.
- Project code available at https://github.com/Ravsehajsinghpuri/distributed_graph_learning_ethereum_dataset

Undergraduate Student - Autonomous Food Delivery Bot　　　　January 2020 – November 2020
Thapar Institute of Engineering & Technology　　　　*Patiala, India*
- Developed an autonomous food delivery vehicle using AI powered computer vision and built a cross-platform mobile application using Flutter for placing and tracking orders along with IoT based locking mechanism
- Trained a Neural Network for steering angle prediction and object detection using *Python*, *Tensorflow Lite*, *Scikit-image* and *Scikit-video*
- Project code available at https://github.com/Ravsehajsinghpuri/FOBO