Abhijit Gupta

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Education

Yale University   New Haven, CT
BS. Computer Science, BS. Applied Mathematics (GPA: 3.80)   Expected May 2022
- Coursework: Systems Programming, Data Structures, Linear Algebra, Discrete Mathematics
- Activities: YHack Organizing Team, Yale Interactive Machines Group, Yale Computer Society

Experience

RTI International   Raleigh, NC
Data Warehouse Intern   May 2020 - August 2020
- Designed campus monitoring dashboard to visualize temporal building occupancy using SQL, Power BI
- Implemented automated demand prioritization system for the BI team, reducing preparation time by 80%
- Leveraged Knowledge: Microsoft SQL Server, Power BI, Data Visualization, Agile Methodology

Yale University   New Haven, CT
Research Intern | Interactive Machines Group (IMG) Lab   January 2019 - Present
- Developing an end-to-end deep learning pipeline studying social group phenomena in the context of human-robot interaction with custom data preprocessing, model architecture, loss function, hyperparameter tuning, metrics
- Leveraged Knowledge: Python, PyTorch, TensorFlow, GitLab, Neural Network, Scientific Writing

Yale University   New Haven, CT
Research Intern | Language, Information, and Learning at Yale (LILY) Lab   August 2019 - December 2019
- Implemented machine learning model to classify salient events in 2D physics simulations; part of a larger work studying implicit physical reasoning in natural language processing (paper: https://arxiv.org/abs/2005.00730)
- Leveraged Knowledge: Python, SciKit Learn, Data Analysis, Machine Learning, Scientific Writing

Projects - see abhijitgupta.io for additional information

Statbotics.io (statbotics.io)   January 2020 - Present
- Developing a full-stack open-source data analytics platform for the FIRST Robotics Competition
- Implemented Django REST API, ReactJS frontend (**1500+ visitors**), Python PIP package (**1000+ downloads**)
- Utilized: Python, Django, REST API, ReactJS, HTML/CSS, MySQL, Travis CI, Google Cloud Platform, GitHub

YHack Website (yhack.org)   March 2020 - Present
- Lead the YHack Tech Team in developing YHack website, registration, and judging process for 2020 hackathon
- Utilized: Python, Django, HTML/CSS, Heroku, Postgres, GitHub, Project Management, Documentation

Project Horus (avgupta456.github.io/HackMIT-2019)   September 2019
- Developed a receipt scanning application using OCR and NLP to incentivize positive spending habits.
- Won the 2019 HackMIT Financial Technology Track and Instabase Sponsor Award among 30+ teams
- Utilized: Python, NumPy, Pandas, Amazon Web Services, HTML/CSS, Natural Language Processing

Skills

Languages: *(Proficient)* Python, Java, C/C++, JavaScript, HTML/CSS, SQL *(Familiar)* Matlab, R, Go, ROS
Frameworks/Libraries: *(Proficient)* Django, ReactJS, NumPy, PyTorch *(Familiar)* Pandas, TensorFlow
Technologies/Concepts: *(Proficient)* Git, Google Cloud, REST API *(Familiar)* CI/CD, AWS, Docker, Databases