ADITYA AHUJA

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EDUCATION

UC San Diego - Masters in Science, Computer Science | *Starting Aug'21*

BITS Pilani, India - Bachelors in Engineering, Computer Science | *Aug '17 - Aug '21*

WORK EXPERIENCE

Open Source Contributor - Google Summer of Code (GSoC), ML for Science (CERN) [Web] | *Jun '21 - Current*
- Working on Fast Detector Simulation by integrating Graph Normalizing Flows with DeepFalcon infrastructure (Project).
- Machine Learning for Science (ML4Sci) is an umbrella organization for Machine Learning projects in High Energy Physics.

Visiting Researcher - Visual Computing Group, Harvard University [Web] | *Jan '21 - Jun '21*
- Worked on few-shot image instance segmentation for RhoANA and PyTorch Connectomics pipeline.
- Also developed techniques for few shot training of traditional Computer Vision models from geometric instance priors.

Undergraduate Researcher - TCS Research & APPCAIR Lab [Web] | *Jan '20 - Dec '20*
- Worked on 4 projects -[1] Compositional Visual Reasoning using Action Graphs (Demo), [2] Joint Neuro-Symbolic training, [3] Root Cause Analysis in Time Series datasets, and [4] Optimising RL algorithms using the Winnow Learning Rule.

Research Intern - European Centre for Medium-Range Weather Forecasts [Web] [Code] | *Jul '20 - Sep '20*
- ECMWF is Europe's largest meteorological research institute and serves ~400 TB of weather data daily.
- Built Machine Learning models for Streaming Time-Series Anomaly Detection to optimise ECMWF's data services (Demo).

Software Development Intern - Media.net [Web] | *May '20 - Jul '20*
- Worked in the Ad-Experience team building models to predict and act on malicious bids for advertisements.
- Also worked on client and server-side detection and identification of malicious activities on foreign JavaScript.

Software Development Intern - Bank of Maharashtra (Central Office) | *May '19 - Jul '19*
- Developed a framework for automatic signature verification using Computer Vision Techniques (Github).
- Built a Siamese Neural Network that converted signatures into high dimensional representations that are then classified.

Machine Learning Intern - Pixxel | *Feb '19 - Apr '19*
- Worked with Pixxel, a space-tech start-up on real world Machine Learning applications for their satellite data.
- Built use-case prototypes from existing satellite data vendors for Geological applications (Feasibility Report).

POSITIONS OF RESPONSIBILITY

President - Society for Artificial Intelligence and Deep Learning [Webpage] | *Jun '20 - Jun '21*
- Helped organise an AI Research Symposium hosting top researchers from industry & academia (with 3000+ registrations).
- Leading a group (~ 30) of talented undergraduates, holding paper reading sessions and working on open-source projects.

Teaching Assistant (thrice) - Machine Learning (F464) & Meta Learning (G513) [Webpage] | *Jan '20 - May '21*
- Responsible for conducting tutorials, labs and evaluating course projects for 120+ undergraduate students.

Teaching Assistant (twice) - Data Science, iXperience [Webpage] | *Jul '20 - Aug '20*
- Professionally Taught and mentored a diverse group of college students from various universities around the world.

Computer Science Technical Mentorship Programme, BITS Pilani | *Apr '19 - May '20*
- Mentored a group of 15 first-year Computer Science Undergraduates, under the Department Mentorship Programme.

Mentor for Machine Learning - Quark Summer Technical Projects (QSTP) [Webpage] | *May '19 - Jul '19*
- Was responsible for mentoring a group of 200+ undergrads and helping them get started with ML and Data Science.

AWARDS

AI Summer School - Google Research India [Website] | *Jul '20*
- Among 150 students selected across India to attend a sponsored Summer School on Machine Learning.

ECMWF Summer of Weather Code [Website] | *May '20*
- Received a grant of £5,000 to develop Time-Series Anomaly Detection methods for ECMWF's massive data services.

CBSE Group Mathematics Olympiad [National Level] [Ranklist] | *Dec '14*
- Secured All India Rank 12 in CBSE Group Mathematics Olympiad (preliminary qualifier for IMO) in class 10.

Detailed CV - adiah80.github.io/cv.pdf