

Jatin Lamba

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Education

Indian Institute of Technology Bombay

Mumbai, India

B.Tech with Honors in Computer Science and Engineering | Major GPA: 9.18/10.0

July 2017 - June 2021

Key Courses: Calculus, Linear Algebra, Data Analysis, Data Structures And Algorithms, Advanced Machine Learning

Professional Experience

Edge Focus Partners | Quantitative Developer | Bangalore, India

June 2021 - Present

- Spearheaded the overhaul and automation of core data pipelines and loan trading infrastructure.
- Built proprietary data stores to standardize raw statement and API data from partner platforms, enabling accurate real time performance tracking. Created dashboards to monitor realized vs forecasted risk-return across all company portfolios.
- Developed tree-based underwriting models enhancing credit risk accuracy and reducing loan losses by 10-20%. Integrated alternative datasets boosting model risk predictiveness, improving returns by 15% for the same spend.
- Managed portfolio worth over \$150 million, addressing investor needs and consistently delivering market-beating returns. Evaluated and priced loans exceeding \$1 billion under different economic regimes in the process.
- Collaborated cross-functionally with engineering, research, capital markets, and investment committee teams.

Adobe Research | Deep Learning Research Intern | Bangalore, India

April 2020 - July 2020

Accepted at NAACL 2021 conference [[paper](#)] | Secured a US patent [[patent](#)]

- Proposed a new multimodal input-output question-answering task to enhance document comprehension and user experience.
- Curated a new dataset by extending existing large datasets heuristically, and developed a novel DL framework to extract multimodal answers, achieving 13% and 45% superior performance over text and images baselines, respectively.
- Created an interactive webpage demonstrating the technology's practical application on PDF documents.

FlexiEle | Artificial Intelligence Intern | Gurugram, India

Dec 2019 - Dec 2019

- Developed a resume parsing and recommendation tool with 89% accuracy in python, featuring an intelligent data parser, a machine learning content classifier, and a profile mapping engine for relevant candidate matching.

Research Experience

Cross-Modal Learning in Videos | Bachelor Thesis Project | IIT Bombay, India

July 2020 - May 2021

Advisor: Prof. Ganesh Ramakrishnan | Accepted at Interspeech 2021 conference [[paper](#)]

- Designed networks to detect and localize occurrences of audio and visual events in a video under weak supervision.
- Modeled interactions between the two streams using context-aware attention, adversarial training, and skip connections without deteriorating individual modalities signals in skewed dataset.
- Achieved 5% improvement over state-of-the-art across all metrics, proving the effectiveness of robust cross-modal techniques.

Memory Reclamation in Data Structures | TU Braunschweig, Germany

May 2019 - July 2019

- Developed a transformer function that converts lock-free data structures from automatic garbage collection to safe memory reclamation. The synthesis algorithm involved incorporating hazard pointers based on parity games.
- Built a parser for constructing abstract syntax trees of data structure functions in C++.
- Computed the program's state space and reduced it by 60% by implementing a symmetry reduction methods.

Achievements And Activities

- Secured All India Rank of 33 in JEE among 1.2 million candidates. June 2017
- Honored with the prestigious KVPY Fellowship by the Government of India. March 2017
- Received NTSE scholarship (top 0.2% in India) by the Government of India. May 2015
- **Teaching Assistant:** Conducted tutorial sessions, and graded exams for a class of about 120 students
 - Computer Programming and Utilization (CS 101) - Prof. Supratim Biswas Jan 2021 - May 2021
 - Logic in Computer Science (CS 228, CS 228M) - Prof. Ashutosh Gupta & Prof. Krishna S July 2019 - May 2020

Skills

Programming

Python, C/C++, Java, JavaScript, Bash, SQL, MATLAB, Prolog, LaTeX, Git

Data Analysis and Machine Learning

Pandas, Numpy, PyTorch, CUDA, Keras, SpaCy, NLTK, Grafana