Abhishek Kumar

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Education

Stanford School of Engineering 2023-2024
Artificial Intelligence Graduate Certificate

- **Relevant Coursework:** CS229 (Machine Learning), CS231N (Deep Learning for Computer Vision), CS224N (Natural Language Processing with Deep Learning)

Indian Institute of Technology, Delhi 2009-2013
Computer Science and Engineering

- **Relevant Coursework:** Data Structures, Design of Algorithms, Computer Networks, Database Systems, Linear Algebra, Probability and Statistics

Experience

PushOwl (Acquired by Brevo) August 2019 - Feb 2023
Chief Technology Officer *Bengaluru, India*

- Helped scale the platform by migrating the workload from Heroku to Kubernetes
- Helped scale the product by integrating distributed stream processing systems like Kafka and KSQL Stream Aggregation into Tech Stack
- Helped scale the Engineering division by setting up the hiring and onboarding process for Engineers
- Helped scale the business by ensuring high availability and reliability during peak discount seasons - like BFCM (Black Friday and Cyber Monday)

Fibe (Previously EarlySalary) December 2018 - Jun 2019
VP of Engineering *Pune, India*

- Helped scale the platform and product by migrating database to multi node cluster

Credifiable June 2016 - December 2018
Chief Technology Officer *Bengaluru, India*

- Helped build the consumer lending product with a customer side portal and a backoffice portal
- Helped integrate with Credit Bureau CIBIL and Experian for fetching automated credit report

Greymeter April 2015 - May 2016
CoFounder, Full Stack Developer *Noida, India*

- Helped build a social platform to connect undergraduate students with internship opportunities
- Helped partner with colleges around NCR (National Capital Region) to onboard students on the platform

Projects

Generating Synthetic CXRs with Generative Modeling | *PyTorch, CNN, GAN, VAE* April - June, 2024

- As part of CS231 course project from Stanford, experimented with Variational Auto Encoders and Generative Adversarial Networks to generate synthetic chest xray images

Projected Attention Layers in BERT | *PyTorch, Language Models, Transformers* April - June, 2024

- As part of CS224 course project from Stanford, modified the BERT architecture to include Projected Attention Layers (Stickland and Murray, 2019)
- Improved the accuracy in 3 NLU (Natural Language Understanding) tasks - Sentiment Analysis, Paraphrase Detection and Semantic Textual Similarity compared to BERT baseline by finetuning the PAL architecture