

Ankush Bhatia

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I'm a Computer Science Engineer with a knack for Machine Learning. 3 Publications in AI, Recommender Systems and Contextual Document Similarity, respectively.

EXPERIENCE

Qualcomm, Hyderabad, Telangana — *Machine Learning Engineer*

April 2019 - PRESENT

I am currently working on developing Hardware Abstraction Layer(HAL) for accelerating Machine Learning models on QCom devices. Our HAL serves as a vendor implementation of the Neural Networks API by Android. Technologies used : C/C++, Python, AndroidNN, Linux, ARM

Clik.ai, Gurugram, Haryana— *Machine Learning Developer*

SEPT 2017 - MARCH 2019

I worked mainly in Document Structuring, Information Retrieval and Image Processing. My major work involved working in core Image Processing (OCR, Noise Removal, Deskew), structuring readable/scanned PDFs (Financial Documents) into dataframes such that they're easily extractable. Used basic NLP and classification techniques to extract useful information from financials. Also worked briefly on NER tagging for financials and a basic search engine to query over a large dataset of documents. Technologies Used : Python, C++, AWS, Linux, Spacy, Tesseract, OCR, Tensorflow, Keras, scikit-learn, pandas

Praktice.ai, Bangalore, Karnataka — *Machine Learning Developer*

JAN 2017 - SEPT 2017

I made Chatbots for healthcare. My work here mostly involved : NLP, Signal Processing, Data Engineering, Django, AWS. I have made several Machine Learning APIs like Speaker Recognition, Text Summarization, Text Chunking and Named Entity Recognition, Bayesian networks for Diagnosis, etc. Technologies Used : Python, Django, AWS, pandas, hmmlearn, crfsuite, redis, Linux, celery.

EpZeta Technologies, Bangalore, Karnataka — *Machine Learning Intern*

MAY 2016 - JULY 2016

Developed Recommender System for online offers for the startup. Technologies Used : Python, NetworkX, Linux, Numpy, Pandas

SKILLS

C/C++

Python

Machine Learning/NLP

AWS

Recommender Systems

Information Retrieval

Django/Flask

PUBLICATIONS

Artificial Intelligence - Making an Intelligent personal assistant published at Indian Journal of Computer Science and Engineering, 2015

Community Detection for the cold start problem in personalization published at 16th IEEE CIT International Conference, Fiji, 2016

Two Layer Earth Mover's Distance over Latent Topics and Word2vec for document similarity applied for publication.

EDUCATION

Georgia Institute of Technology — *Master of Science in Computer Science*

JAN 2021 - PRESENT

Specialization : Machine Learning (Pursuing)

Charotar University of Science and Technology, Gujarat, India — *Bachelor of Technology in Computer Engineering*

AUG 2013 - JUNE 2017

I graduated with First Class honors from Charotar University of Science and Technology.

PROJECTS

Community-detect

A graph clustering python module based on my publication. Hosted at PyPi with more than 500 downloads.

Messi

Messi is an Intelligent personal assistant that controls my entire system through text, gestures and voice. Wrote a paper describing how i optimised memory of a rule based bot.

DocSearch

Developed a more accurate document similarity algorithm for a corpus of large documents using EMD over Latent Topics.

Sarah/Praktice/Elth

Sarah was a voice bot and praktice and elth were chatbots which I developed for my work at Praktice.ai.

Clik.ai

Docu.ai is a search engine for querying over thousands of financial documents which I developed for my time at Clik.ai.

Neural Networks API

Developing Hardware Abstraction Layer for Android's Neural Networks API.

ACHIEVEMENTS

ACM ICPC Asia Regionals - Amritapuri - 2016 Ranked 42nd out of 400+ teams that qualified for asia regionals.

ACM ICPC Asia Regionals - Kharagpur - 2015 Ranked 49th out of 200+ teams that qualified for Asia Regionals

Online Judges Ranked in top 100 of a long contest by Codechef. Highest rating 1881 in Codechef. Solved 132 problems on spoj and ranked among top 1k in the world

Google's Hidden FooBar Challenge Completed all 5 levels of Google's secret FooBar Challenge.