PINKESH BADJATIYA

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EDUCATION

MS by RESEARCH in Computer Science and Engineering International Institute of Information Technology, Hyderabad (IIIT Hyderabad)

- Specialization: Information Retrieval, Natural Language Processing, Machine Learning, Deep Learning
- Best Poster Award (WWW'17), ECIR Student Travel Grant, Microsoft Research Travel Grant, WWW Student Travel Grant, Dean Research Award
- Advisor: Dr. Vasudeva Varma (IIIT Hyderabad); Dr. Manish Gupta (Microsoft India R&D)

2014 - 2018

B.Tech in Computer Science and Engineering
International Institute of Information Technology, Hyderabad (IIIT Hyderabad)
CGPA: 8.71 / 10

System Administrator and Organizer

Felicity Threads is the annual technical fest of IIIT Hyderabad.

• Created a proxy submission Flask API compatible with Last.fm scrobblers.

• Blog: https://blog.musicbrainz.org/2016/08/23/gsoc-16-listenbrainz-fun/

Google Summer Of Code (GSoC) '16 Intern

EXPERIENCE

A Adobe **Software Development Engineer 2** JUNE '19 - CURRENT I am currently working with the MDSR Lab in Adobe as a Al Researcher where I primarily work with Reinforcement Learning and Computer Vision. I also work on productionizing ML algorithms. External Reviewer for CODS-COMAD 2021, ICWSM 2019, ICON 2019, ALW 2019 **CURRENT** SEPT '18 - CURRENT 🕨 IIIT Hvderabad Currently working on Identification of Discriminatory Content on Social Media with Prof. Vasudeva Varma (IIIT-Hyderabad) and Prof. Manish Gupta (Principal Applied Scientist, Microsoft India R&D) at Information Retrieval & Extraction Lab (iREL), IIIT Hyderabad. Machine Learning Research Intern JAN '19 - APRIL '19 Working towards solving social dilemmas using cooperation for Multi-agent setting using Deep Reinforcement Learning using Model-based Value functions. Software Engineer Intern GoldmanSachs MAY '18 - JULY '18 Designed an algorithmic solution using constraint optimization in java and scala. Used TDD with OOP concepts and Design patterns. Performed error analysis and deployed to production. SEP '17 - MAR '18 Data Analytics/Site Reliability Engineer Intern T-Hub. Hyderabad Developed analytics from the reports produced by ~280 co-working startups incubated at T-Hub.
Analyzed the user traffic flows to improve the site experience and generate weekly statistics for internal-analysis using Google Analytics and Python Aug '16 - Dec '18 **Teaching Assistant** IIIT Hyderabad • Information Retrieval & Extraction (Monsoon 2018) NLP Applications (Spring 2018) Statistical Methods in Artificial Intelligence (Monsoon 2017) Data Structures (Spring 2017) ITWS-1 (Monsoon 2016) Nov '16 - Jan '17 Google Code-In '16 Mentor MetaBrainz Mentored students working on the ListenBrainz project. Tasks involved creating tasks of varying difficulty levels and evaluating their submissions.

PUBLICATIONS

Jul '16 - Jun '17

APR '16 - AUG '16

(11 MONTHS)

(4 MONTHS)

NOVEMBER 2019	Multi-label Categorization of Accounts of Sexism using a Neural Framework Pulkit Parikh, Harika Abburi, Pinkesh Badjatiya, Radhika Krishnan, Niyati Chhaya (Adobe Research, India), Manish Gupta (Microsoft, India), Vasudeva Varma In proceedings of Conference on Empirical Methods in Natural Language Processing (EMNLP), 2019 (long paper)	
OCTOBER 2018	Stereotypical bias removal using Knowledge-based Generalization for Abuse Detection Task Pinkesh Badjatiya, Manish Gupta (Microsoft, India), Vasudeva Varma (IIIT-H) In proceedings of The World Wide Web Conference (TheWebConf) 2019 (long paper)	
DECEMBER 2017	Attention-based Neural Text Segmentation Pinkesh Badjatiya, Litton J Kurisinkel, Manish Gupta (Microsoft, India), Vasudeva Varma (IIIT-In proceedings of European Conference on Information Retrieval (ECIR), 2018 (long paper)	ECIR 2018 H)

· Added scrobbling support for desktop clients with support for tracking currently playing song in Redis.

Felicity '17, IIIT Hyderabad

MetaBrainz

APRIL 2017

Deep Learning for Hate Speech Detection in Tweets

WWW 2017

Pinkesh Badjatiya, Shashank Gupta, Manish Gupta (Microsoft, India), Vasudeva Varma (IIIT-H)
In proceedings of the International World Wide Web (WWW) Conference, 2017

Received Best Poster Presentation Award at WWW'17, Perth, Australia

• Our work received significant print media coverage: https://bit.ly/hatespeech-iiith-best-poster

AWARDS, GRANTS, HONORS AND ACHIEVEMENTS

2019	TheWebConf Student travel grant for attending TheWebConf '19 conference in US.	San Francisco, USA	
2019	Microsoft Research (MSR) Travel Grant for attending TheWebConf'19 conference in US.	San Francisco, USA	
2018	Dean's Research Award Awarded in semesters Monsoon 17 & Monsoon 18 for obtaining research publications during undergraduate study	IIIT Hyderabad	
2018	Dean's Merit List for academic excellence Selected in Dean's List in semesters Monsoon 15, Monsoon 17 & Spring 18. Awarded to Top 5% of the class.	IIIT Hyderabad	
2018	ECIR-Grenoble travel grant for attending ECIR'18 conference in France.	Grenoble, France	
2017	Ranked 3 rd in the Big Data Challenge Department of Higher & Technical Education Government of Rajasthan, India 1741 teams participated from all across India. Awarded prize by the Vasundhara Raje, Chief Minister of Rajastha	an	
2017	Best Poster Presentation Award 26th International World Wide Web Conference, 2017 Received award for publication Deep Learning For Hate Speech Detection in Tweets at the WWW'17 Conference, P	WWW'17, Perth, Australia ference, Perth, Australia.	
2016	My team <i>SourceCode</i> ranked 80th in the 2016 ACM-ICPC Asia Chennai Regional Contest, 67th in the Asia-Chenna '16 Online Round and 107th in the Asia Amritapuri '16 Online Round.		
2015	Ranked 2 nd in Microsoft Code.Fun.Do Hackathon	Microsoft, Hyderabad	
2014	AIR 3313/1.4 million (All India Rank) in JEE-Advance		
2014	AIR 7044/1.4 million (All India Rank) in JEE-Mains (State Rank-258)		

MAJOR PROJECTS

Wiki Search Engine	Search Engine for indexing & querying entire Wikipedia dump • Built efficient positional index for 64GB of Wikipedia dump for supporting multi-word queries. • Field queries with execution time <5 secs. Ranking results based on relevance, field and term scores.
d.TF-IDF	Distributed TF-IDF for documents Developed a master-slave distributed architecture using C++ using MPI interface for computing TF-IDF scores for a set of documents to equally distribute the load across slaves.
TIC-TAC-TOE AI	A game bot for modified version of tic-tac-toe game • Developed a game bot for Ultimate Tic-Toe-Game using Minimax Algorithm & Alpha-Beta pruning.
PEERNET	P2P file sync over TCP/UDP protocols with integrity checks • A peer-to-peer file sharing application capable of sharing files using TCP/UDP protocols along with integrity check using SHA256 checksum. Supports remote directory listing along with complete directory sync. • Built in C using socket programming and UNIX system calls.
Nex	Mini multi-threaded proxy web server + HTTP web server • Capable of serving html/images/audio/videos and directory listing or used as a proxy server. • Other features: Template injection, banned hosts, conditional header processing, HTTP Basic Authentication.
XV6 PRIORITY SCHEDULER	A scheduler for xv6 operating system based on priority of processes • Created a priority based scheduler in place of round robin scheduler. • Added a new system call set_priority() to change the priority of processes.
C SHELL	A shell built in c using POSIX standards and thread programming • A shell in C using knowledge of threads, forking, signals, process groups, system calls and other OS concepts. • Features include piping, file redirection, process job management, foreground/background processes, tracking background processes, signal handling, variable assigning, and built-in commands.

TECHNICAL SKILLS

Proficiency: Advanced, Intermediate, Basic

Programming Languages Python, C++ (STL), C, java, Scala

GNU/Linux , Microsoft Windows OS

Scripting Python, Bash

Web Technologies HTML, CSS, Flask, JavaScript, Web2py, Django Machine/Deep Learning TensorFlow, PyTorch, numpy, sklearn, pandas, theano Others MySQL, Git(VCS), Markdown, apache2, nginx, \LaTeX

Interests Machine Learning, Natural Language Processing, Deep Learning, Reinforcement

Learning, Algorithms, Operating Systems