Akash Sharma

Website | Github | LinkedIn | Blogs | Mail | New Delhi

EDUCATION

IIIT DELHI
BTech in Comp. Science
(+ minors in Social Sciences)
2017 - 2021
GPA: 8.7 / 10.0

RYAN INTL. SCHOOL
Class 12th (CBSE)
Percentage: 95%
Class 10th (CBSE)
CGPA: 10.0 / 10.0

SKILLS

Over 5000 lines:
C++ • Python • Java • JS

Web Development
HTML • CSS • NodeJS
• Vue • React • Flask
MySQL • MongoDB

Scripting
MATLAB • Julia • R
• Go • PHP • LaTeX

Tools & Tech. Used:
Git • Shell Scripting • GCP
Azure • Redis • ElasticSearch

ACHIEVEMENTS

- Codeforces - Expert (1601)
- CodeChef - 4 Star (1841)
- ACM ICPC Qual'18 - GR 224
- Snackdown Qual'18- AIR 53
- BVCOE Hackathon Winner'19
- SNU Hackathon Winner'18
- Letter of Appreciation - HRD Ministry - 2017

COURSEWORK

Deep Learning
Machine Learning
Semantic Web
Data Structure and Algos
Computer Networks
Database Systems
Computer Security
Advanced Programming
Soft. Dev using Open Source
Computer Architecture
Operating Systems
Graph Theory

EXPERIENCE

MIDAS LAB | Research Collaborator — Sept 20 - Present
- Researching in the field of Computational Psycho-linguistics with Columbia University. Working on development of an automated scoring system for oral proficiency for TOEFL

PROGRAM ANALYSIS LAB | Undergrad Researcher — Oct 20 - Present
- Collaborating with the Program Analysis Lab team and researching on the applications of Deep Learning techniques over Software engineering tasks.

MATHWORKS | Software Engineering Intern — May - Jun 20, Remote
- Worked on the development of a debugging tool for embedded code generation utilized by Simulink models through graphical visualization

LBB | Full Stack Development Intern — May - Aug 19, Delhi
- Understood the business requirements of the company & accordingly executed technology-based solutions & optimised performance of existing services
- Developed scalable application systems for the commerce platform

PUBLICATIONS

Improving Cross-Language Code Clone Detection via Code Representation Learning and Graph Neural Networks
Transactions on Software Engineering (TSE) 2021
- Proposed state-of-the-art semi supervised deep learning-based mechanism capable of detecting code clones across different programming languages.

Learning Fine-Grained Cross Modality Excitement for Self Supervised Detection of Speech Disfluencies
ICASSP 2022
- Proposed a cross modality DL based excitement module to conduct sample-specific adjustment on multi-modality embeddingst for detection of disfluencies using speech and text.

RECENT PROJECTS

Enveave - Open source Organisation
Dr. Pankaj Jalote — June 21 - Present
Formed an open source platform that aims at connecting ideas, combining efforts and enhancing collaboration among people for Environmental Conservation Initiatives.

Disentangling Factors of Variation in Images with Cycle Consistent VAE
Dr. Saket Anand, — April 20 - May 20
Redesigned the novel architecture that disentangles the latent space into two complementary subspaces through Cycle-Consistent Variational Auto-Encoders for training DL models

Visual Question Answering
Dr. Saket Anand, VQA Challenge 2020 — March 20 - April 20
Developed multiple deep learning based models for the construction of a Visual question answering system for VQA Challenge of 2020.

Twitter Data Analytics for Indian Elections 2019
Oxford University, IIM Kozhikode — March 19 - May 19
Developed a realtime analytics portal of Tweets from Indian politicians & parties, all actively scraped from Twitter & analysed for social-scientists & researchers.

More of my projects and their descriptions are available at **akash-sharma-1.github.io**