

SHREYA KACHOLIA

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ACADEMIC QUALIFICATIONS

PERCENTAGE/CGPA

MONTH OF COMPLETION

BTech, Computer Science & Engineering (IITK)

7.85/10.0

May 2023-24

Senior Secondary Examination (CBSE)

90.8%

May 2018

Secondary Examination (CBSE)

10.0/10.0

May 2016

CO-FOUNDER

Tech2Teach Pvt. Ltd.

May 2021-till date

- Made Tech2Teach, **subscription model-based LMS** service provider
- Received pre-seed funding from **Dean of resources & Alumni DORA**, IITK
- **Achieved First** position Startup Master Class Ideation, IITK

WORK EXPERIENCE

Caching Pricing data internship, Morgan Stanley

May 2023-July 2023

Role- Java & MongoDB Developer

- Made **Java 8** code with **IntelliJ**, **Rapid SQL** ran SQL queries & **MongoDB compass isolated edition** executed MongoDB queries
- **Accomplishment:** Altered **Java 8** code so, now uses **MongoDB** instead, **Firebase Realtime Database**

Risk lending action Internship, American Express

May 2022-July 2022

Role- SAS & SQL Developer & Analyst

- Risk assessment from **high FICO threshold** customers carving out the risky population.
- **Accomplishment:** Employed **professional SQL softwares**, **SAS** the integrated suite decomposition & **WinSCP** for file transfer

Computer vision Internship, Matchday.ai

April 2020-Jun 2020

Role- Computer vision Developer

- Used **3D pose estimation** & **concepts of photometry** -> extract 3D data from soccer broadcast videos
- **Achieved:** planer homography-based **positioning**, **decomposition**, **transformation** & **graphical projections** to visualize motion

PUBLICATION

System and method for maintaining virtual learning process

July 2020- Oct 2020

Faculty guide: Prof Amey Karkare

- Developed **Smart chatbot based LMS**, uses 3rd party messaging servers, providing tons of resources to schools
- Patent has been granted on **12th May 2023** (Certificate in link to all achievements section) & **Patent Number: 431689**

RESEARCH PROJECTS

AI- based monitoring of hospital preparedness towards COVID-19, IITK Consultancy group

April 2020-May 2020

- Developed web dashboard for **WHO south-east Asia** to monitor hospital preparedness towards COVID-19
- Deployed **TF-IDF** & **exponential smoothing** to correlate COVID related tweets with hospital demands & daily positive cases

Assimilation of research journals using ML, Prof SK Jha (IITK) & Prof Vireshwar Singh (IITD)

Jan 2020-Dec 2020

- Made review journals from corpus of scientific papers using **keyphrase extraction**, **topic modelling** & **text summarization**
- Implemented **TF-IDF**, **KEA** at documented **F1 accuracy** & **positive unlabelled learning** to extract key-phrases

LASSO Sparse recovery, Prof Purushottam Kar (CSE, IITK)

Jan 2020-Feb 2020

- Implemented Primal **Stochastic Coordinate Descent** & **Proximal Gradient Descent** LASSO solvers with 3-fold cross-validation
- Solvers achieved accuracy **comparable** to **sklearn LASSO solver**; **faster** than it, Project (with report) on Github

Portal for Department Admissions, Prof Amey Karkare (CSE, IITK)

Feb 2020-July 2020

- Developed portal, simplified PG admission scrutiny process worked with **Flask**, **SQLite**, **SQLAlchemy** & **python**, **SRS¹** on Git
- Had features for **role-based access control**, **automatic file allocation**, **tracking time spent**, **announcements platform** etc

ACHIEVEMENTS

- Won **first** prize as innovative idea pitch deck, **Start-up Incubation and Innovation Center IIT Kanpur** (20201)
- Selected **accelerated with Pre-seed funding**, having innovative start-up idea. Also, won the best project after evaluation. (2021)
- Secured **Academic Excellence Award** by **IIT Kanpur** (2020)
- Secured **AIR 3** in **Data Science & ML hackathon** organised by CrowdStrike Inc (2020)
- Selected as **Google Women Techmakers** Scholar Asia Pacific (2020)

¹ Software Requirements Specification

- Won **IBM** coding contest **Maitreyee** (2020)
- Qualified **round 1 with AIR 896** in **Flipkart Grid Teach the Machines** competition (2019)
- JEE – Advanced AIR 3110 (general category) & AIR 5 PWD(persons with disability category)& AIR 1 (PWD Women) (2018)
- Selected for **KVPY** fellowship awarded by Govt of India (2018)
- Academics: **Above 90%**, CBSE higher secondary board exam (2018)
- Academics: **Above 95%**, CBSE secondary board exam (2016)
- Achieved **international rank 369, 226, 202** in International French Language Olympiad (2014, 2015, 2016)

POSITIONS OF RESPONSIBILITY

Secretary Debating Society, IIT Kanpur 2019-2020

- **Organized & managed** "Novice Debating League" flagship event of the debating society IIT Kanpur
- **Participated & Represented** IIT Kanpur, debating society at various prestigious institutes including IIT Delhi & IIT Mumbai

Secretary Alumni Relations, IIT Kanpur 2019-2020

- **Organized & managed** various events for IIT Kanpur Alumni
- **Managed**, On-campus events for Alumni, **helped** Alumni explore recent developments being made on campus

Secretary, Start-up Internship Program, IIT Kanpur 2019-2020

- **Anchored**, E-Summit 19, flagship event of Entrepreneurship Cell, IIT Kanpur
- **Managed & Organized** various events & competitions in E-Summit 19

CO-SCHOLASTIC

- **Volunteered**, translate NPTEL² CSE course content from English to Hindi, a project of **Govt of India** (2020)
- **National finalist**, scientific report writing & presentation competition organized, govt of India, NCSC³ (2009)
- **National finalist**, scientific report writing & presentation competition organized, govt of India, NCSC (2014)
- **Bestowed Best All-Rounder Award**, Subodh Public School, Rambagh (Jaipur) (2013-14)
- **Bestowed Best All-Rounder Award**, Subodh Public School, Rambagh (Jaipur) (2015-16)
- **Creativity: Awarded Special Mention prize**, all India newspaper designing competition, **Dainik Bhasker** (2017-18)
- **Awarded 1st runner up** (2012) for **public speaking** organized by Govt of Rajasthan (2012)
- **Awarded 2nd runner up** (2013) for **public speaking** organized by Govt of Rajasthan (2013)
- **Sports: Awarded bronze medal**, 400m race Inter College Sports Fest, IITK (2018)
- Achieved **international rank 202** International French Language Olympiad (2014)
- Achieved **international rank 202** International French Language Olympiad (2015)
- Achieved **international rank 369** International French Language Olympiad (2016)

COURSES

Introduction to Machine Learning , Fundamentals of Computing, Modern cryptology, Theory of computation, Probability & Statistics, Introduction to logic, Principles of programming languages,Data Structures and Algorithms, Algorithms II, Operating System, Software Development and Operations, Discrete mathematics, Linear Algebra, Ordinary Differential Equations, Principles of database systems, Compiler Design, Portfolio Management, Project Management , Security Analysis & Investments, E-Supply Chain Management, Software Project Management,Human Centered Computing, Quantum Mechanics, Newtonian mechanics, Engineering Graphics, Manufacturing Processes, Practical & theoretical organic & inorganic chemistry courses, Principles of electronics, Soft skills, various philosophy and sociology courses, Biology & Biotechnology courses, Technical communication

TECHNICAL SKILLS

Programming languages Python3, C, C++,Java 8, Java 11 (OOP), Haskell, Prolong, Flex, Bison

RDBMS MySQL, SQLite3, MongoDB

Tools Git, \LaTeX , Microsoft Office

Management skills Leadership, Project Management, Communication, Problem Solving, Time Management

² National Programme on Technology Enhanced Learning

³ National Children Science Congress