



Mohit Gupta

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GATE CSE 2021 (431), GATE CSE 2022 (468), qualified M. Tech CSE student interested in research in Machine Learning and Deep Learning. Currently, doing my Master's thesis under the guidance of Prof. Rajiv Ratn Shah (MIDAS) on the topic of **"Resume Parsing & Information Extraction using Computer Vision & Natural Language Processing"**.

AREA OF INTEREST: Natural Language Processing, Machine Learning, Deep Learning, Databases, and Software Development.




EDUCATION

Aug 2022 – present	M.Tech, Computer Science & Engineering <i>Indraprastha Institute of Information Technology Delhi</i>  <ul style="list-style-type: none">Doing my Master's thesis work under the guidance of Prof. Rajiv Ratn Shah, and PhD advisor Mr. Avinash Anand (MIDAS).Topic: Resume Parsing & Information Detection Using NLP & Computer Vision	Delhi, India
2018 – 2022	B.Tech, Electronics and Communication Engineering 9.59 CGPA <i>Dr. Akhilesh Das Gupta Institute Of Technology And Management</i>  Received NBA Accreditation in June, 2022	Delhi, India
2017 – 2018	Senior Secondary (XII), Science, 86.00% <i>Anglo Sanskrit V.J. Sr Sec School, Central Board of Secondary Education</i>	Delhi, India
2015 – 2016	Secondary (X), General, 92.15% <i>Anglo Sanskrit V.J. Sr Sec School, Central Board of Secondary Education</i>	Delhi, India

INTERSHIPS

Feb 2022 – May 2022	Software Development Engineer Intern <i>Tata Consultancy Services, India</i>  <ul style="list-style-type: none">Learning and working on the concepts of data warehousing systems.Writing scripts for Type-II, Type-III Slowly Changing Dimensions, Staging from a .csv file from the local system, and validation checking scripts from the staging table.The technology used: Python, SQL, Snowflake, OOPS	Delhi, India
Jun 2021 – Aug 2021	Research & Development Intern <i>e-Yantra Labs, Indian Institute of Technology, Bombay</i>  <ul style="list-style-type: none">Built a full-fledged web portal for Radiologist 2nd Opinion from scratch.Learn about Radiology, DICOM, PACS server, Cron jobs, etc.Used Django, DRF, python, Jinja, Redis, PostgreSQL, AWS SNS, EC2 for deployment.	Delhi, India

PROJECTS

Jan 2023 – May 2023	FREEDOM: Effective Early Depression Detection through Online Media Posts  <ul style="list-style-type: none">The aim of the proposed research-based project is the development and deployment of Artificial Intelligence (AI) based mathematical models to analyze uni-modal and multi-modal aspects of the input data to predict depression. Stack: Python, Web Scraping, Deep Learning, Natural Language Processing, Image Processing	
Sep 2022 – Dec 2022	LILAC : Analyzing Lifestyle as Risk Factor for Lung Cancer <ul style="list-style-type: none">The project attempts to propose a detailed comparison of popular Machine Learning techniques with an aim to predict the risk of Lung Cancer effectively.The best feature selection technique is attributed to Sequential Feature Selection as it led to a significant improvement in the prediction of the risk through relatively easier models with high accuracy. Stack: Python, Machine Learning, GridSearch, Feature Selection Techniques, Classification Algorithms	
Jun 2022 – Jul 2022	Pytorch based Digit prediction using MNIST Dataset  <ul style="list-style-type: none">A Pytorch Project with flask API to predict handwritten digits using MNIST Dataset having (28*28) grayscale images.This problem is the multi-class classification problem, in which we have different classes from 0 to 9.I've used 4 transformers to transform the image bytes into Tensors and Normalize them.I've used Tensorboard to visualize the metrics, images, and graphs. Stack: Python, Flask, Deep Neural Networks, PyTorch, Tensorboard.	
May 2022 – Jun 2022	UPIGO - REST Unified Payments Interface (UPI)  <ul style="list-style-type: none">Building whole end-to-end REST APIs of Unified Payment Gateway (UPI).I am integrating Email Verification through email link, and mobile number verification through SMS OTP.I am building almost 15+ APIs in this project, related to User Accounts, UPI Operations, and Transactions. Stack: Python, Django REST, ORM, PostgreSQL, Twilio, Postman, Database Designing.	

Jan 2022 – Apr 2022	Smart Parcel Scanning and Sorting System <ul style="list-style-type: none"> • A system for smart and secure management of parcels and their deliveries at railway stations. • My part in this project is to build the whole web interface and to make APIs, integrate them with Reactjs frontend. • This project helped us win India's biggest hackathon, Smart India Hackathon. Stack: Python, raspberry pi-3, machine learning, computer vision, RFID, Reactjs, DRF.
May 2021 – Jun 2021	CoWin: Command Line based Chat Bot <ul style="list-style-type: none"> • Python CLI-based chatbot for booking vaccine slots. Stack: Python, Socket Programming, Web Scraping, CLI
Mar 2021 – May 2021	Medster ↗ <ul style="list-style-type: none"> • Medster was a take on, defining a new set of workings for OPD insurance for the masses. • Medster used technology and synchronization b/w three parties in the transaction, i.e Consumer, Doctor, Insurer to ensure a smooth end-to-end UX.

PUBLICATIONS

Sep 2022	Designing an Intelligent Parcel Management System using IoT & Machine Learning ↗ <i>IEEE IAS GlobConET 2022</i> Citation: M. Gupta, N. Garg, J. Garg, V. Gupta and D. Gautam, "Designing an Intelligent Parcel Management System using IoT & Machine Learning," 2022 IEEE IAS Global Conference on Emerging Technologies (GlobConET), 2022, pp. 751-756, doi: 10.1109/GlobConET53749.2022.9872449.
May 2021	Improvement in Semantic address matching using NLP ↗ <i>2nd INCET 2021- Sponsored by IEEE Bangalore Section</i> Citation: V. Gupta, M. Gupta, J. Garg and N. Garg, "Improvement in Semantic Address Matching using Natural Language Processing," 2021 2nd International Conference for Emerging Technology (INCET), 2021, pp. 1-5, doi: 10.1109/INCET51464.2021.9456342.

POSITION OF RESPONSIBILITY

2021 – 2022	ROBOGYAN: Software Lead (Development) ↗ <ul style="list-style-type: none"> • Participated in many hackathons on behalf of Robogyan and contributed to the college and society and manages the development team of society.
Sep 2021 – Oct 2021	CodeChef, Live the Code 2021: Mentor <ul style="list-style-type: none"> • Participated as a mentor in a global hackathon organized under Codechef Chapters.

SKILLS

| Languages: Python, C, SQL, HTML, JavaScript, Java | **Frameworks:** Django, Django REST, ReactJs
| Databases: MySQL, PostgreSQL, Snowflake, Firebase | **Tools:** VScode, Github, Sublime, PyCharm, Postman, Canva
| Operating Systems: Windows, Ubuntu | **Cloud:** AWS (Basics)

ACHIEVEMENTS

- Finalist, Smart India Hackathon 2022	- Winner Smart India Hackathon 2020
- Winner Code Innovation Series by Github	- Embedded ECDC 2021 3rd Position
- Top 10 Teams in IIITD E-cell Ideathon 2021	- Top 50 Teams ZetaHacks 2021
- Winner Honda Hackathon 2020	- Top 8 Finalist in Razorpay FTX Hackathon 2020
- Rotary Youth Leadership Award 2017	

ARTICLES

A Simple RESTful API using Nodejs & PostgreSQL [↗](#)
Medium

An Introduction to DICOM & its Viewers [↗](#)
Medium

5 Important PostgreSQL functions [↗](#)
Medium

Stooge Sort: An Un-popular Sorting Algorithm [↗](#)
Medium