

# Abhishek Kumar

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## EDUCATION

### L.P.U UNIVERSITY

BTECH IN COMPUTER SCIENCE  
 Grad June 2024

### UPGRAD CAMPUS

BTech WITH Data Science  
 Grad June 2024

## COURSEWORK

### UNDERGRADUATE

Machine Learning  
 Deep Learning  
 Data Analytics  
 Computer Vision  
 NLP  
 DBMS  
 Software Engineering  
 Cloud Computing  
 Data Structures  
 Mathematics I, II

## SKILLS

### PROGRAMMING

Languages :  
 • Advance - C++, Python, HTML  
 • Intermediate - Java, CSS, C  
 • Novice - JavaScript, SQL

Tools :  
 • Git • Jupyter • MySQL

Frameworks :  
 • Sci-Kit Learn • TensorFlow  
 • CUDA • PyTorch • CNN & RNN  
 • Hadoop

Technologies :  
 • AWS

Databases :  
 • MongoDB • Postgre SQL • MySQL

### OTHERS

• Teaching  
 • Abacus  
 • Drawing

## EXPERIENCE

>1 year ( internship)

### MTE | Data Analytics INTERN

Sep 2023 - Nov 2023 | Remote, IN

- Selected as 1 of 17 out of 2,000 Intern 2023 program applicants.
- Built a ML Model that reduce the time to Analyze Death Rate of LEFT-RIGHT Handed person using 2k params.
- Automated creation and maintenance of features engineering and performance monitoring in service-specific code, resulting in a time savings of 30+ hours per week.
- Operated as a Data Scientist, writing and reviewing up to 1000+ Lines code in Python with a Java back-end.
- Used various tools like Amazon AWS, Hugging Face, Flask , Cloud Formation, Cloud watch, Route 53 and Amazon Step functions.

### CHEGG INDIA | Subject MATTER EXPERT

May 2021 - March 2022 | Remote

- Offered expert guidance to hundreds of students worldwide on various topics achieving a 90% positive feedback rate.
- Assisted up to 40 students in the meantime understanding complex concepts and solving academic problems effectively.

## PROJECTS

**Autonomous Bone Fracture Detection** | CNN | ResNet | Deep Learning | CV | NODE js | MONGO DB

- Developed a CNN-based model with transfer learning using pre-trained Res-Net for accurate fracture identification in X-ray images, with accuracy of 0.952.
- This web app is designed from scratch and uses the H15-api library for fracture and bone dislocation detection.

**Image Caption Generator** | LSTM | Natural language processing | Deep Learning | Flask | Docker | AWS Sage maker

- Assemble a diverse dataset of 10,000 images along with corresponding descriptive captions.
- Implemented code for making predictions, i.e., generating captions, using the trained LSTM model with data splits of 80:20 %.
- Served the algorithm using flask, done containerization using Docker & deployed using AWS Sage maker.

## ACHIEVEMENTS

### COMPETITIVE PROGRAMMING

- CodeChef- Highest Rating 3 star
- GeeksForGeeks+Leetcode - More than 500 problems solved.
- January Long 2022 - I, Division 3 (Rated) - Global rank 402.

### ACADEMICS

- Awarded 35% scholarship in college
- Scored 2<sup>nd</sup> rank in Inter college chess tournament