ABHISHEK CHOURASIA

B.Tech. - Computer Science & Engineering

Ph: +91-9752950569

Email: en23cs3t1013@medicaps.ac.in

Indore, Madhya Pradesh, India - 452018

LinkedIn: https://www.linkedin.com/in/abhishek291203

BRIEF SUMMARY

I am Abhishek Chourasia, a final-year B.Tech. Computer Science student at Medi-Caps University, Indore, with expertise in AI, ML, and Full Stack Development. I completed the IBM Global Remote Mentorship Program (July–Dec 2024) via IBM SkillsBuild, developing a breast cancer detection system using ML/DL(Web-BCD). I'm also trained in Celonis Process Mining Fundamentals. I co-authored a research paper, "A Review on Understanding the Patterns of Student Dropout", presented at WCSC 2024 and published by Springer Nature India. I'm passionate about leveraging emerging technologies to address real-world challenges in AI, data analysis, and development.

KEY EXPERTISE

C | C++ | Java | Python | HTML | CSS | JavaScript | R | Machine Learning | Deep Learning

EDUCATION

Medi-Caps University 2021 - 2025

B.Tech. - Computer Science & Engineering | CGPA: **9.33** / **10**

Karnataka Vidya Niketan, Indore 2021

12th | MPBSE | Percentage: **86.20** / **100**

Karnataka Vidya Niketan, Indore 2019

10th | MPBSE | Percentage: **85.40** / **100**

AWARDS AND SCHOLARSHIPS

- Transtemporal Tattle Trails 2021, a unique Pan India competition organized by iNurture Education Solutions, Bengaluru, saw my team secure the position of first runner-up and silver medalist in this championship.

INTERNSHIPS

IBM - GLOBAL REMOTE MENTORSHIP | IT Product & Services 01 Jul, 2024 - 31 Dec, 2024

Research Intern

Key Skills: Software Development | Flask API | Machine Learning | Research | Deep Learning

Developed Web-BCD, a breast cancer detection system using the Wisconsin dataset.
– Engineered a machine learning model with Python libraries (Pandas, Numpy, Scikit-learn) and a Sequential Neural Network (model serialization via pickle).
– Deployed the model using Flask and integrated it with an interactive HTML/CSS/JavaScript interface.
– Earned an IBM SkillsBuild certificate and received mentorship from industry expert Dharmendra Singh Panwar, enhancing technical and project management skills.

PROJECTS

KRISHIDISHA: AN INTELLIGENT PLATFORM FOR RECOMMENDATIONS WITH AI-POWERED CROP DISEASE DETECTION. 02 Jan, 2025 - 30 Apr, 2025

Mentor: Prof. Priyanka Dhasal | **Team Size:** 3

Key Skills:

Flask | Deep Learning | Machine Learning | Python | HTML/CSS/JAVASCRIPT | MySQL Workbench | GITHUB

Project Link: https://github.com/AbhishekChourasia29/KrishiDisha_Abhishek_Goutam_Shiv_Project_Work-2

Integrated crop and fertilizer recommendations, disease detection, and yield prediction using ML models (Random Forest, Gradient Boost Regressor, CNN).
– Implemented multilingual support and real-time disease detection via image uploads.
– Developed an AI-powered chatbot to assist farmers with instant, personalized agricultural guidance.
– Deployed the platform using Flask with a user-friendly interface to improve accessibility for farmers.
- It's research project accepted by IEEE International Conference of Engineering Innovation Technology 2025.

Predictive Analysis of Student Dropout Using Machine Learning and Deep Learning Techniques such as Logistics Regression and Artificial Neural Network. 22 Aug, 2023 - 30 Nov, 2023

Mentor: Anil Patidar | **Team Size:** 3

Key Skills:

Machine Learning Algorithms: Logistic Regression, K-Nearest Neighbors (KNN), Random Forest

Deep Learning Algorithms: Artificial Neural Networks (ANN) | Exploratory Data Analysis (EDA)

Data Manipulation and Preprocessing | Predictive Modeling | Data Source: Student Academic and Socioeconomic Data

Project Link: https://colab.research.google.com/drive/1mhs5OMNKASuuhpDnEb0FfW0zdR6YAeXO#scrollTo=FdYDo1PossaD

This project, part of my Minor Project - I in the 5th semester at Medi-Caps University, Indore, predicts student dropout rates based on academic, socioeconomic, and demographic factors like GPA, family qualifications, marital status, income, and attendance. We applied machine learning (Logistic Regression, KNN, Random Forest) and deep learning (ANN) techniques, with the ANN model achieving the highest accuracy of 91% and an F1 score of 0.93. Using a dataset from Zenodo with 4,424 records, the project identified patterns to help educational institutions predict and prevent student dropouts effectively.

PUBLICATIONS / RESEARCH / WHITE PAPERS

A Review on Understanding the Patterns of Student Dropout

03 Apr, 2025

Conference | Springer Nature Singapore | **Mentor:** Anil Patidar | **No. of Authors:** 5

Key Skills: Machine Learning | Deep Learning | Python

Higher education institutions serve as crucial centers for the accumulation of vast quantities of student data, providing fertile ground for information gathering, knowledge development, and monitoring. This data reservoir, comprising demographic, socioeconomic, macroeconomic, and academic statistics, is pivotal in understanding and addressing issues such as early dropout rates and failure rates in higher education. These rates not only have immediate ramifications but also exert a profound influence on economic growth factors. Early dropout and failure rates impact not just individuals but also society, institutions, and families. The analysis utilized a dataset of approximately 4424 students enrolled in various undergraduate programs (agronomy, design, education, etc.) across first and second semesters. The data encompasses demographic, socioeconomic, and macroeconomic factors collected at the time of enrollment from sources like the General Directorate of Higher Education (DGES) and the Contemporary Portugal Database (PORDATA). F1 score was employed for model selection, while Logistic Regression, K-Nearest Neighbors, Random Forest (ML), and Artificial Neural Networks (DL) were used for prediction and evaluation. Additionally, quantitative metrics like accuracy, precision, and recall were employed for decision-making and model comparisons. By leveraging this system effectively, higher education institutions can play a pivotal role in steering the trajectory of students' educational journeys and contributing to the broader development of society. The results that we achieved demonstrate that the DL approach, that is ANN, performed much better on student dropout data compared with other available methodologies.

ACHIEVEMENTS

- Research paper accepted at IEEE ICoEIT 2025

ASSESSMENTS / CERTIFICATIONS

Python for Data Science

Aggregate: 69 / 100

Key Skills:

Python | Supervised and Unsupervised Machine Learning Algorithm | Logistics and Linear Regression

Exploratory Data Analysis

Machine Learning: Supervised and Unsupervised Algorithm including Linear and Logistics Regression also Kmeans clustring.
Python : Basics Python with Libraries like Pandas, Numpy , Seaborn, Tensorflow and Matplotlib.
Exploratory Data Analysis: Data manipulation, Data preprocessiong and Data visualization.
Here I scored 69/100 and elite certificate from NPTEL.

SEMINARS / TRAININGS / WORKSHOPS

Celonis Process Mining Fundamentals Industrial Training

25 Jun, 2024 - 19 Jul, 2024

Institute Name: Medi-Caps University, Indore

Key Skills: Celonis Execution Management System | Business Analysis | Business Improvement | Process Mining

I have successfully completed the Celonis Industry Training program organized by Medi-Caps University from June 26, 2024, to July 19, 2024. This training has been a significant milestone in my professional journey, providing me with in-depth knowledge and hands-on experience with the Celonis Learning Management System (LMS) and Execution Management System (EMS).
Here I learned three modules name Review and Interpret, Build Analysis and Process Mining Fundamentals.

CO-CURRICULAR ACTIVITIES

- iNurture had organized the PEN India competition in C programming language and it was named Codevir IT Vertical Competition 2022. Here I got the certificate and was in the top 20.

EXTRA CURRICULAR ACTIVITIES

- We made a periscope in the science exhibition in the first year of college. I also received this certificate from the department of physics.

PERSONAL INTERESTS / HOBBIES

- Cricket, Cycling and Reading Books.

WEB LINKS

- Github - https://github.com/AbhishekChourasia29
- Personal - https://abhishekchourasia29.github.io/Resume/
- Facebook - https://www.facebook.com/abhishek.291203/
- Twitter - https://x.com/Abhishek_291203

PERSONAL DETAILS

Gender: Male
Date of Birth: 29 Dec, 2003
Marital Status: Single
Known Languages: Hindi, English and Sanskrit
Current Address: 174,Tilak Nagar, Indore, Madhya Pradesh, India - 452018
Phone Numbers: +91-9752950569, +91-9977713795
Emails: en23cs3t1013@medicaps.ac.in , abhishekchourasia29122003@gmail.com, chourasiaabhi12345@gmail.com