

Abhinav Rathi

Master of Computer Applications | AI/ML Engineer | Application Developer | Android Developer

Highly skilled and adaptable developer with a proven track record in software development, machine learning, and project leadership, adept at leveraging diverse programming languages and frameworks to drive innovative solutions

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Education

Examination	University	Grades	Year
Master of Computer Applications	CHRIST University	8.6 CGPA	2024
Bachelor of Computer Applications	CHRIST University	9.55 CGPA	2022
Intermediate/ +2	CBSE	88.2%	2019
Matriculation	CBSE	9.6 CGPA	2017

Certifications

- **AWS Academy Graduate** – AWS Academy Cloud Foundations
- **Microsoft Technology Associate** – Security Fundamentals

IT & Soft Skills

AI / ML:

- **Techniques:** Regression | Classification | Deep Learning | Survival Analysis | Computer Vision | NLP | RVC
- **Frameworks & Libraries:** TensorFlow | PyTorch | MediaPipe | OpenCV | Ultralytics | Keras
- **APIs & Services:** OpenAI Whisper API | ChatGPT API
- **Tools:** CUDA | Streamlit | Flask | NGROK | SocketIO

Programming Languages: Java | Python | C | JavaScript | Dart

Databases: Oracle SQL | MySQL | MongoDB | PostgreSQL | Firebase

Frameworks & Tools: Git | Flutter | Android Studio | Bitbucket | Postman

Project Management & Collaboration: Jira | SharePoint | MS Teams | Airtable

Soft Skills: Team Player | Leadership | Adaptable | Critical Thinker | Interpersonal Skills | Decision Making

Work Experience

Athena Education | Senior Associate | Machine Learning

Duration: Jun'24 – Present

- **Mentored AI/ML Projects:** Guided over 20 students in developing and deploying 15+ machine learning web applications, fostering their growth in AI and machine learning.
- **Applied Advanced Machine Learning Techniques:** Leveraged technologies such as TensorFlow, MediaPipe, PyTorch, YOLO, and CUDA to create innovative solutions in Emotion Recognition, Pose Detection, Medical Imaging, and Voice Cloning.
- **Developed and Deployed Full-Stack Applications:** Utilized Streamlit, Flask, NGROK, and SocketIO to build and deploy end-to-end web applications, enhancing accessibility and performance.
- **Integrated Cutting-Edge AI Services:** Incorporated APIs like OpenAI Whisper and ChatGPT to develop applications such as auto transcription services and waste management solutions, promoting sustainability and productivity.

BNP Paribas | Application Developer | Intern

Duration: Jan'24 – May'24

Regulatory Volume Predictor

Duration: Jan'24 – Feb'24

- Spearheaded the analysis of market trade data, extracting insights to develop a volume prediction model for BNPP Global Markets
- Applied advanced data preprocessing techniques, including outlier detection and feature scaling, resulting in improved data quality and model performance
- Implemented various machine learning models and leveraging ensemble techniques to achieve a **90%** prediction accuracy
- Conducted hyperparameter tuning using **Keras RandomSearch algorithm** resulting in optimized neural network architecture

ServiceNow Analytics Dashboard

Duration: Mar'24 – May'24

- Worked extensively with the **ServiceNow** data stored in **PostgreSQL database** to explore incidents and change requests, identifying key data attributes for analysis.
- Developed an interactive analytics dashboard using **Django**, facilitating efficient data visualization and decision-making.
- Utilized **Chart.js** to create dynamic and interactive chart displays, enhancing the user experience and providing clear insights into the data.

HIH7 Webtech Pvt Ltd | Android Developer | Intern

Duration: Dec'21 – Apr'22

- Responsibly involved in end-to-end software development cycle and making **BRDs**
- Identifying an optimal technical solution, sprint planning, delivery, and post-launch performance analysis
- Worked with custom APIs handling **MongoDB** and tested them using **Postman**, which helped in reducing network errors by **20%**
- Built custom UI elements and animation using **Rive**, which enhanced the design of the application by **30%**

Revora

Duration: Jan'22 – Apr'22

Revmeup | Android Developer | Intern

Duration: Feb'21 – Apr'21

- Completed my work ahead of time, which led to quick updates for the application
- Effectively solved many existing issues in the application, which improved the application working by **30%**
- Collaborated with quality engineers, product management, and design teams to ensure quality in all phases of app development
- Integrated third-party libraries, including **Picasso**, **Glide**, **Retrofit**, and **Crashlytics**

Academic Projects

MeetMinder | AI/ML Project | Research Paper

Duration: Oct'23 – Dec'23

- Spearheaded MeetMinder development using **Pyannote**, and **Whisper** to automate online meeting summaries
- Aligned with SDGs for productivity enhancement, reducing information overload, and fostering innovation
- Architected a robust system for audio processing which includes **speaker diarization, transcription, and summarization**
- Implementing feasibility analysis, planning, and collaborative methodologies for successful project execution

EventFlow | DBMS Project | [GitHub](#)

Duration: Feb'23 – Apr'23

- Developed a cross-platform mobile application using Flutter framework that simplifies the process of event management (**Approval, Booking & Attendance Management**) in the University
- Followed **Agile Development Methodology** and collaborated with the team to deliver the project within the timeline

Salescape | Academic Major Project | [GitHub](#)

Duration: Sept'21 – Dec'21

- A **Cross-Platform** mobile application to digitalize logistics (**Inventory, Transaction & Order Management**)
- Technology used - Flutter, Dart, Firebase, GPS Location, Rive

RentToday | DBMS Project | [GitHub](#)

Duration: Feb'21 – May'21

- Developed a web application to facilitate property rental system for students
- Technology used - HTML5, CSS, JavaScript, AJAX, PHP, PostgreSQL, Heroku

Leadership Responsibilities

Competitive Programming Lead | Google Developers Student Club – CHRIST Chapter

Duration: Aug'22 – Oct'23

- Led a team of programmers to organize workshops and competitions with a total participation of over 100 students
- Improved the quality of events, resulting in positive feedback from participants and mentors

Core Committee | GATEWAYS 2022 – CHRIST University

Duration: Aug'22 – Nov'22

- Led the National Level Science Fest with a team of **200+ students**
- Raised total sponsorship worth **Rs 6 lakh**

Co-Curricular Achievements

- **Intel OneAPI Hackathon (2023)** – 2nd Prize
- **Revelations (2023)** – Quiz Event – 1st Prize
- **Hackzon (2022)** – Quiz Event – 2nd Prize
- **Login (2022)** – Coding and Debugging Event – 2nd Prize
- **Xactitude (2021)** – Coding and Debugging Event – 3rd Prize
- **EdgeVerve – The Big Bot League 3 (2019)** – 1st Prize