Deviyansh Rajpurohit

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SUMMARY

Results-driven third-year Computer Science Engineering student at VIT Bhopal with strong expertise in Java backend development, Machine Learning, and full-stack system integration. Experienced in building AI-powered applications using CNN and ML models, designing Java-based desktop systems, and deploying full-stack applications with API integration. Passionate about scalable backend systems, cloud deployment, and AI-driven problem solving. Actively seeking and cloud-focused internship opportunities.

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, SQL, JavaScript, HTML/CSS

Machine Learning AI: Supervised Learning Models, CNN (Convolutional Neural Networks), Model Training Evaluation, Data Preprocessing

Web Backend Development: REST APIs, HTTP JSON, Frontend−Backend Integration, API Deployment, Java Swing (Desktop UI)

Cloud DevOps: AWS (EC2, S3, VPC, IAM), Git GitHub, Deployment Version Control

Databases: MySQL, SQL

Core CS Concepts: Object-Oriented Programming (OOP), Data Structures Algorithms, SDLC, Agile Methodology

PROJECTS

AI-Based Skin Disease Detection System (Multi-Modal CNN)
Full Stack AI Healthcare Application   *Python, TensorFlow, MobileNetV2, FastAPI, ReactJS, CNN*
- Developed a multi-modal deep learning system combining CNN-based image classification with symptom-based inputs for dermatological disease detection

- Utilized **MobileNetV2** for feature extraction and implemented late fusion architecture to improve diagnostic accuracy

- Achieved improved classification performance through data augmentation, transfer learning, and architecture tuning

- Built FastAPI backend for real-time inference and ReactJS frontend for image upload, symptom input, and treatment recommendation display

AI-Based Job Recommendation System
Machine Learning System   *Python, Scikit-learn, Pandas, NLP*
- Built a machine learning-based recommendation engine to match candidate skills with relevant job profiles

- Performed feature extraction, text preprocessing, and similarity-based ranking using classification techniques

- Improved recommendation relevance through model optimization and evaluation metrics tuning

- Designed scalable architecture for handling large candidate-job datasets efficiently

Java-Based Cricket Scorecard System
Desktop Application   *Java, Java Swing, OOP*
- Developed a desktop-based cricket scorecard system using Java Swing for real-time match tracking

- Applied object-oriented design principles for modular, reusable, and maintainable code structure

- Implemented interactive UI components and robust data validation for match statistics management

Chemical Equipment Visualizer   GitHub
Hybrid Web + Desktop Application   *Python, Web Technologies, UI/UX*
- Designed a hybrid visualization tool for interactive representation of chemical laboratory equipment

- Integrated frontend UI components with backend logic for dynamic rendering and visualization

- Improved user experience through responsive design and structured interface layout

SmartResume Generator   GitHub
Machine Learning Application   *Python, ML, NLP, Web Integration*
- Developed an ML-based resume builder that dynamically structures and optimizes resume content

- Implemented intelligent formatting and content enhancement algorithms for automated resume generation

- Integrated backend processing with user input forms for scalable and user-friendly workflow

Mental Care Platform   GitHub

Full Stack Web Application   *React, FastAPI, REST APIs*

- Integrated frontend and backend services using REST APIs for seamless data communication

- Managed API deployment and handled authentication and secure data exchange

- Contributed to full-stack architecture design and deployment strategy for scalable healthcare platform

EDUCATION

VIT Bhopal University   Bhopal, India
B.Tech in Computer Science and Engineering (Core) – CGPA: 7.66   *2023 – 2027*
Hill Grove Col's Academy   Sumerpur(Pali), Rajasthan
Class XII (CBSE) – 84.4%   *2022*
Hill Grove Col's Academy   Sumerpur(Pali), Rajasthan
Class X (CBSE) – 89.6%   *2020*

CERTIFICATIONS

AWS Technical Essentials   Agile Project Management
Google IT Support Professional Certificate