

Priyanshu Agnihotri

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EDUCATION

VIT BHOPAL UNIVERSITY

September 2021 onwards

Bachelor of Technology, Major in Computer Science & Engineering

Cumulative GPA: 8.41/10

PROJECTS

Automated ML Pipeline Generator for Scalable Cloud Integration (GCP) | Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn [view](#)

- Engineered end-to-end ML pipelines in Python to automate the migration of TensorFlow, XGBoost, and Scikit-learn models to Google Cloud Platform. Enhanced project QA by integrating automated testing scripts at each pipeline stage using Python and PyTest.
- Configured and orchestrated training, validation, and deployment stages using custom YAML templates and GCP services such as AI Platform and Cloud Storage.
- Streamlined MLOps workflows by generating reusable, cloud-optimized pipeline components for scalable and reproducible deployments.

Healthcare (Healthcare Platform with Age and Gender Estimation from Face images) | Python, MySQL, PHP, HTML/CSS, JavaScript [view](#)

- Developed a healthcare platform using machine learning algorithms to accurately estimate age and gender from face images, enhancing diagnostic efficiency by 40%.
- Integrated a robust backend with MySQL, streamlining data management and reducing database query times by 25%.
- Utilized Python-driven ML models to ensure robust and precise predictions, enhancing system reliability.

Multithreaded File Compressor | C++, STL, Threads, Huffman Encoding [view](#)

- Built a high-performance file compression tool using Huffman Encoding, achieving up to 60% size reduction.
- Implemented efficient file I/O and modular architecture with extensible support for decompression and binary storage.
- Designed multithreading-ready logic for chunk-based parallel encoding using C++17 and standard libraries.

Pet Reunite Hub | React.js, JavaScript, HTML, CSS, Node.js, Express.js, MongoDB, Vercel & Heroku/Render (Deployment) [view](#)

- Engineered a full-stack web platform to reunite lost pets with owners, integrating user authentication, pet listings, image uploads, and advanced search/filter feature.
- Implemented RESTful APIs with Node.js (Express.js) and connected them to a React.js frontend, ensuring seamless data exchange and responsive UI.
- Launched and optimized the application using Vercel (frontend) and Node.js backend hosting (Heroku/Render) for scalability and reliability.

AI Interview Coach | Python, Streamlit, OpenAI GPT-4 API, Judge0 API, REST APIs, JSON [view](#)

- Designed and deployed an AI-driven interview coaching application that generates tailored technical, behavioral, and system design questions using OpenAI GPT-4.
- Implemented real-time performance evaluation with structured rubrics, scoring metrics, and improvement suggestions, boosting learning outcomes.
- Integrated Judge0 API for live coding assessments and developed PDF/Markdown report generation for detailed candidate progress tracking.

EXPERIENCE

CodSoft, Kolkata • Machine Learning Developer (INTERN)

10/2023 – 11/2023

- Developed a real-time fraud detection pipeline with Logistic Regression and Random Forest, reinforcing transaction safety.
- Built predictive models for churn analysis using SVM and Gradient Boosting, enabling strategic customer retention.
- Implemented spam detection using NLP techniques like Naive Bayes and SVM, effectively filtering unwanted messages.

Oasis InfoByte, New Delhi • Data Analyst (INTERN)

06/2024 - 07/2024

- Interpreted Google Play Store data to identify market patterns through advanced data visualization and cleaning.
- Explored retail sales data via Exploratory Data Analysis (EDA) to reveal trends, aiding stock and promotion strategies.
- Formulated clustering models for user segmentation, driving better personalization in e-commerce marketing.

SKILLS

Programming Languages: Python, R, C++, PHP, HTML/CSS

Frameworks & Tools: TensorFlow, Keras, Microsoft Office Suite, Scikit-learn

Databases & BI Tools: MySQL, NoSQL, SQL Server, MongoDB, Power BI

Developer Tools: GitHub, Hadoop, VS Code, Anaconda

Development Methodologies: DSA, OOPs, Agile, Waterfall, Scrum, SDLC (Software Development Life Cycle), ETL/ELT Pipelines

Soft Skills: Leadership, Communication, Team Collaboration, Problem Solving, Strategic Thinking, Multitask, Analytical Thinking

ACHIEVEMENTS

- Attained an institute rank of 434 on GeeksforGeeks, reflecting proficiency in coding and algorithms.
- Achieved AIR 310 in the JEE B. ARCH Exam, showcasing exceptional aptitude.
- Secured a Leetcode rank under 2,75,000 demonstrating strong problem-solving skills.

CERTIFICATIONS

- AWS Certified Cloud Practitioner , Amazon MERN Full Stack
- MERN(MongoDB, Express.js, React.js, Node.js) Full Stack , Ethnus
- AI Engineering Professional Certificate, IBM