Yash Singh

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Software Engineer Intern

Tech-driven problem solver with a passion for building innovative solutions using C++, databases, and web development (HTML/CSS). Thriving in team environments.

Experience

● **Full Stack Developer Trainee**
Bhavna Software India Private Limited, Noida, India
May 2024 – July 2024
- Completed a 2-month internship in full-stack web development.
- Worked with Spring Boot 3.3.0, Java 17, AWS, Docker, Kubernetes, and Angular 15.
- Contributed to backend and frontend development, focusing on web application deployment.

● **Projects**

1. **Chest Cancer Classification System**

Developed a CNN-based system to classify chest X-ray images as "Normal" or "Adenocarcinoma Cancer" .
- Designed a modular pipeline for data ingestion, model preparation, training, and evaluation.
- Implemented data processing with Python, TensorFlow, and Keras.
- Leveraged pre-trained model (VGG16) with custom layers for classification.
- Automated CI/CD pipelines for seamless integration and deployment.
- Deployed the system on AWS for scalable and reliable cloud-based operations.
- Utilized YAML-based configuration and MLflow for experiment tracking and logging.

2. **Automated Email Sending Application**
- Developed a Flask-based web application to automate the sending of emails with customizable subjects and bodies.
- Enabled uploading of CSV/Excel files for bulk email distribution, with error handling for file validation and missing fields.
- Utilized Python libraries like Pandas for data manipulation and Yagmail for email automation.
- Incorporated environment variables to securely handle sensitive information like email credentials.

3. **Social Media Feed Algorithm**
- Developed a C++ algorithm to rank social media posts based on user interactions, time, and popularity. Used hash maps for user storage, priority queues for post ranking, and vectors for dynamic management.
- Technologies Used: C++, Hash Maps, Priority Queues, Vectors

Education

Jaypee Institute of Information Technology
- Bachelor of Technology, Information technology.
  (2022-2026)

Kendriya Vidyalaya sector - 24 , Noida
- Intermediate- PCM (2021-2022)

Skills

- Programming Languages: C++, C (DSA)
- Python (Basic)
- Databases: SQL, PL SQL(intermediate)
- Web Development: front-End HTML, CSS
- Back End: PHP (working knowledge)
- figma UX/UI (Intermediate)
- knowledge of MAT-LAB
- AWS (Amazon Web Services)
- JavaScript
- Git