ABHI TYAGI

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Professional Summary

Software Developer with **1.8 years** of experience in **AI/ML, Backend, and Full-Stack development**. Specialized in **building scalable applications** using **Node.js, Python, and modern web frameworks**. Proficient in **developing and deploying AI/ML models**, **optimizing APIs**, and **leading projects** from concept to completion. Passionate about **automation, data-driven decision-making**, and **innovative tech solutions**.

Technical Skills

Backend Technologies: Node.Js, Express.Js, Python (FastAPI, Django REST Framework, Flask), PHP (CI/Core), REST APIs

Frontend Development: HTML5 , CSS3 , JavaScript , React.Js, Bootstrap , jQuery, EJS

Databases: MySQL, PostgreSQL, MongoDB

Version Control & Tools: Git , Github, Visual Studio Code , PyCharm , Anaconda, Jupyter Notebook, Postman

DevOps & Cloud: AWS (EC2, S3), Linux, Nginx

AI/ML & NLP: Machine Learning, Deep Learning, Generative AI, NLP (Spacy, NLTK), Transformers, LLM APIs (OpenAI, LLaMA, Hugging Face, LangChain), Model Deployment (TorchServe, TensorFlow Serving)

Experience

Austere Systems Limited – Gurugram **Sep 2023 - Present**
Software Developer *Sep 2023 - Present*

- Developing and optimizing full-stack applications using **Node.js, Python (Django, FastAPI)**, and modern frontend frameworks.
- Architected and deployed AI-driven solutions, integrating **LLM APIs (OpenAI, Llama)**, NLP models, and automation pipelines to enhance software capabilities.
- Built and optimized **RESTful APIs and microservices**, improving system efficiency and reducing response time by **40%**.
- Implemented AI-powered transcription, summarization, and facial recognition solutions, reducing manual processing time by **90%**.
- Led database design and optimization for scalable applications using **MySQL, PostgreSQL**, ensuring high availability and performance.
- Enhanced system reliability by designing **asynchronous processing pipelines**, improving task execution efficiency for large-scale data operations.
- Collaborated with cross-functional teams and stakeholders to define project requirements, align technical solutions with business objectives, and ensure successful product delivery.
- Mentored junior developers, conducted code reviews, and enforced best coding practices to maintain software quality and scalability.

Projects

Python Projects

- **AI-Powered Multimodal Translator** | *Python, OpenAI Whisper, FastAPI, Generative AI* **Mar 2025 – Present**
  * Engineered a **full-stack web application** capable of processing **audio, video, and document files**, supporting **transcription**, **translation**, and **summarization** in **99+ languages** with **85%** accuracy.
  * Integrated **OpenAI Whisper** for high-accuracy transcription, Python-based translation pipelines, and **large language models (LLMs)** to automate structured, multilingual summaries, achieving a **90%** reduction in manual workload.
  * Designed and optimized a scalable backend using **FastAPI**, achieving a **70% improvement in multilingual processing speed** through enhanced text extraction and efficient resource management.

- **Algorithmic Trading System** | *Python, REST API, WebSocket* **Jan 2025 – Present**
  * Developed an AI-driven algorithmic trading system for stock derivatives, executing trades with **<50ms latency** using real-time market data via **REST APIs** and **WebSockets.**
  * Implemented an optimized trading strategy, achieving a **70% success rate** in volatile market conditions and improving execution efficiency by **85%**.
  * Automated trade execution and risk management workflows, reducing manual intervention by **90%** and enhancing decision-making accuracy.

- **Creative Rentals** | *Python, LLM, Django Rest Framework, PostgreSQL* **Jun 2024 – Aug 2024**

* Built an AI-based solution for movie production houses to generate **detailed scene elements** (locations, characters, props) based on input scenarios, streamlining creative workflows.
* Fine-tuned an open-source **LLM** with domain-specific movie datasets, increasing accuracy in scenario-based content generation.
* Designed and deployed scalable backend architecture with **REST APIs**, ensuring seamless communication between AI models and frontend applications.

- **Automated Invoice Processing System** | *Python, OCR, Django Rest Framework, React*   **Feb 2024 – Apr 2024**
  * Developed a web-based **OCR-powered billing system** to automate invoice processing, reducing manual data entry by **80%**.
  * Optimized text extraction and classification, storing structured data in PostgreSQL for **real-time retrieval and analytics**.
  * Integrated an interactive **React frontend** for data validation, real-time editing, and PDF export, enhancing operational efficiency.

Full Stack Projects

- **ASHRAM** | *React, Node.js, MySQL*   **May 2024 – Jul 2024**
  * Developed a web-based monitoring system for schools and hostels, improving operational efficiency by **65%** through **automated fund distribution, amenities tracking, and role-based access control**.
  * Implemented **RESTful APIs** for seamless communication between headquarters and hostels, reducing response time for notices, circulars, and program updates by **50%**.
  * Optimized MySQL database architecture to enable **real-time updates** and efficient retrieval of school and hostel data, enhancing data accuracy by **70%**.

- **Haryana Police Transfer System** | *React, Node.js, Python*   **Apr 2024 – Jun 2024**
  * Automated the police personnel transfer process, reducing **manual workload by 70%** with an **Excel bulk upload system** and Python-based optimization logic.
  * Developed a **data-driven Python script** for personnel analysis and transfer assignments, improving decision accuracy by **60%** and reducing errors.
  * Created an intuitive React-based frontend, reducing **administrative processing time by 50%** through an interactive results dashboard.

- **Gram Panchayat Development Plan (GPDP)** | *React, Node.js, MySQL, Python*   **Jul 2024 – Sep 2024**
  * Built a **web portal** to digitize the GPDP process, increasing monitoring and implementation efficiency by **60%**.
  * Developed key modules for **user management, citizen voting, data uploading, scheduling, and attendance tracking**, ensuring real-time engagement of over **100+ stakeholders**.
  * Implemented an **AI-powered analytical dashboard** with **MIS reporting**, enhancing strategic planning and project monitoring efficiency by **40%**.

PHP Projects

- **Funds Disbursement and Management System (FDMS)** | *PHP, Python, MySQL*   **Sep 2023 – Dec 2024**
  * Developed **interactive dashboards** for fund allocation, vendor payments, and financial tracking, improving financial oversight and transparency by **70%**.
  * Implemented **automated workflows** for estimate submission, approval, payment processing, and utilization certificate filing, reducing manual workload by **60%**.
  * Integrated **AI-driven financial analytics** and a chatbot for transaction summarization, enabling **real-time anomaly detection** and enhancing decision-making efficiency by **50%**.

- **Election Monitoring System (EMS)** | *PHP (Core), Python, MySQL*   **Dec 2023 – Jan 2025**
  * Developed **real-time dashboards** for election tracking, integrating **automated data import via Excel** and Python-based **attendance monitoring**, improving accuracy by **80%**.
  * Implemented **social media monitoring** and **WhatsApp outreach** to enhance voter engagement, increasing campaign reach by **40%**.
  * Built an **incident management system** for real-time issue reporting and resolution, ensuring electoral transparency and reducing response time by **50%**.

Education

College Of Engineering Roorkee, Roorkee   **August 2019 – August 2023**

Bachelor of Technology in Computer Science & Engineering   *GPA: 7.8/10*

Internships

Web Development Internship | *SO INFOTECH Pvt. Ltd*   **Jan 2022 - Apr 2022**

Android Summer Intern | *Ducat, Noida*   **Jun 2020 – Aug 2020**