Adarsh Kumar Singh

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SUMMARY

Ambitious Computer Science undergraduate at VIT Bhopal with hands-on experience in Full-Stack Web Development, Software Engineering, and Machine Learning. Skilled in building scalable applications, AI-powered tools, and cloud-based solutions. Strong foundation in Python, C++, Java, React.js, Node.js, MongoDB, and AWS. Passionate about solving real-world problems through technology, with a proven record of academic projects, certifications, and industry simulations. Seeking a Software Engineer / Full-Stack Developer role to contribute technical expertise and innovative solutions.

PROJECTS

DreamBack – AI Time Capsule (Full-Stack Web App)
Built a full-stack web app enabling users to store time-locked personal messages revealed only on chosen dates. Implemented passwordless email authentication, secure data handling, and REST APIs. Designed a futuristic UI/UX with responsive frontend and scalable backend. Tech: React.js, Vite, Tailwind CSS, Node.js, Express.js, MongoDB, Vercel. Live: dreamback.vercel.app

Bytedocs – Generative AI Document Assistant
Developed an AI-powered assistant for intelligent document Q&A; using Retrieval-Augmented Generation (RAG). Integrated semantic search, LLM-based text generation, and PDF parsing for context-aware answers. Deployed interactive prototypes with streamlined backend support. Tech: Python, OpenAI API, LangChain, Hugging Face, FAISS, Streamlit.

Spam Detection & Classification (ML Project)
Built a spam classifier using Naive Bayes & SVM with NLP preprocessing (tokenization, TF-IDF, lemmatization). Achieved strong performance with confusion matrix & performance metrics. Applied data visualization for insights and evaluation. Tech: Python, Scikit-learn, NLTK, Pandas, NumPy.

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript (ES6+)
Web Development: React.js, Node.js, Express.js, MongoDB, HTML, CSS, Tailwind CSS
Databases: MySQL, MongoDB
Machine Learning & AI: TensorFlow, PyTorch, Scikit-learn, Hugging Face, LangChain
Cloud & Tools: AWS Elastic Beanstalk, Git, GitHub, Postman, Vercel, VS Code
Operating Systems: Windows, Linux (basic shell)

CERTIFICATIONS

• AWS Solutions Architecture (Forage Virtual Experience)
• Disaster Risk Monitoring Using Satellite Imagery – NVIDIA DLI
• Data Visualization: Empowering Business with Effective Insights – TCS Forage
• Full Stack Web Development Bootcamp – Udemy
• Python Essentials & Fundamentals of AI/ML – VITyarthi
• Introduction to Machine Learning – NPTEL

PROFESSIONAL TRAINING & SIMULATIONS

• Software Engineering Virtual Experience | Electronic Arts – Designed game feature proposal, implemented C++ classdiagrams, fixed performance bugs.
• AWS APAC Solutions Architecture Simulation | AWS – Designed scalable hosting solutions with AWS ElasticBeanstalk.
• Data Visualization | Tata Consultancy Services – Delivered executive-level business insights using Tableau/Power BI.

EDUCATION

• VIT Bhopal University – BTech in Computer Science (Core) | Sep 2023 – Jul 2027 (Expected)
• RBS Public School – Intermediate | May 2021 – Feb 2023
• Harmony International School – Matriculation | Feb 2008 – Mar 2021