

ABHISHEK

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EDUCATION

B.Tech in CSE

G.C.E.T JAMMU • JAMMU • 2027 • 7.67

LKG-12th

JODHAMAL PUBLIC SCHOOL • JAMMU • 2022

EXPERIENCE

SOFTWARE ENGINEERING INTERN

NATIONAL PAYMENTS COOPERATION OF INDIA (NPCI)

July 2025 - August 2025, CHENNAI

- Developed the Billing Disbursement Tracking System, delivering key features that streamlined billing workflows and improved operational visibility which **saved 3 hours of the team per disbursement**.
- Contributed to offline engineering for NACH/CTS, performing end-to-end implementation and validation to ensure data accuracy and compliance in a payments environment **within 100% encrypted environment**.
- Tested and deployed the prototype for their use on a local server.

PROJECT INTERN

DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION (DRDO)

June 2025 - June 2025, DELHI

- Lead a team of 30 interns to built a Retrieval-Augmented Generation (RAG) system using LLaMA-3 to analyse confidential departmental documents, improving information retrieval speed and automation efficiency by an estimated **50–60%** in prototype testing.
- Developed and deployed an offline AI-powered chatbot using NLP and prompt engineering techniques, enabling secure, on-device interaction with technical documents with **100% offline data privacy compliance**.
- Led the development effort and coordinated with researchers and other interns, ensuring milestone completion **within a 4-week schedule**, while maintaining clear communication and technical documentation across the team.

RESEARCH INTERN

INDIAN INSTITUTE OF TECHNOLOGY, PATNA

February 2025 - May 2025, REMOTE

- Developed machine learning models for research-driven experiments, improving prediction accuracy and experimental result reliability by an estimated **20–35%** during iterative model refinement.
- Implemented data preprocessing, cleaning, and feature engineering pipelines, reducing noise and improving model performance while cutting experiment iteration time by **~30%**.
- Collaborated with faculty and research peers, validating results, documenting findings, and contributing to ongoing AI research aligned with project goals and academic standards.

Web Administrator

MY HOME STOP

February 2025 - May 2025, REMOTE

- Managed and optimised website performance, ensuring **- 90% uptime**, fast load times, and seamless user experience.
- Administered web hosting, domains, and DNS configurations, ensuring smooth deployment and maintenance of web services for the full period of 4 months.
- Implemented structured update and backup procedures, ensuring **100% data retention** and reducing website recovery time in case of failure.

PROJECT

BUDGET-BABA

github.com/abhi-1408-shek/BUDGET_BABA • April 2025 - May 2025

- Developed a multi-user finance platform using Streamlit and SQLite with secure hashed authentication, enabling **100% isolated user sessions and CRUD operations for 500+ stored transactions in tests**.
- Built a Pandas/NumPy data processing layer to compute category-wise spending, rolling averages, and usage trends, resulting in **~40% faster data load and refresh times compared to early prototype logic**.
- Implemented an AI-powered insights module using scikit-learn anomaly detection and rule-based recommendations, improving **user budget accuracy by ~25% during sample testing and simulations**.

RESUME-SENSE

github.com/abhi-1408-shek/RESUME_SENSE • February 2025 - April 2025

- Implemented a FastAPI backend (spaCy + rule-based NER + Tesseract OCR) and hand-validated against ~120 resumes — achieved **~82% extraction accuracy** for core fields (email/phone/skills/experience) and parsed at **~5 resumes/min** on my dev machine.
- Built a React + Tailwind frontend with bulk-upload, virtualized parsing queue and Chart.js analytics; **processes** 50–200 resume batches smoothly and **delivers** filter/dashboard updates in **~200–600 ms** on ~500 parsed records.

INVOLVEMENT

SECRETARY and C.F.O

TECH-EAGLES • September 2025 – Present

PRESIDENT

INFOMANIACS CLUB, G.C.E.T JAMMU • September 2024 – Present

CORE MEMBER

GOOGLE DEVELOPER'S GROUP, JAMMU • December 2023 – Present

SKILLS

Programming Languages: JavaScript, Python, C++, PHP, Dynamic HTML

Frameworks & Libraries: Django, Flask, Pandas, TensorFlow, scikit-learn

Data Science & Visualization: NumPy, Pandas, Matplotlib, Seaborn

Machine Learning: Neural Networks, Regression, Classification, Clustering, Model Evaluation

Tools & Platforms: VS Code, Git, Figma, Canva, Keynote, Pages, Cursor.

Databases: MySQL, PostgreSQL, SQLite, VectorDB

Awards and Achievements

SIH'25 FINALIST

Was selected for the Grand Finale in SIH consisting of 1,42,715 teams consisting a total of 8,26,635 students.

TOP 1000 - SBI COLLEGE YOUTH IDEATHON 2025

Was selected among the Top 1000 innovators in India at the College Youth Ideathon 2025, held at IIT Delhi — India's largest entrepreneurship competition for college students.

SPECIAL LOR's

Got two Letter of Recommendations (LOR's) from both DRDO and NPCI as per special clause.

FINALIST- WEBDASH 2025

Was selected among the Top 12 Teams out of 448 in the Website Development Challenge - WebDash.