



DAKSH MAHERA
B.Tech. - Computer Science & Engineering
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PROFESSIONAL SUMMARY

Computer Science Engineering student with strong foundations in Software Development, Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating Systems, and Computer Networks. Proficient in Java, Python, SQL, Django, and REST APIs with experience developing full-stack web applications, Android applications, and data-driven software solutions. Skilled in Agile development, software testing, code reviews, and collaborative project delivery.

KEY EXPERTISE

Java Python C CPP Bash YAML SQL Data Structures OOPs DBMS Operating Systems
Computer Networking SDLC Secure Code Review Github Git Android Studio Android Development Eclipse
RHEL Docker Firebase PostgreSQL MySQL Maven Machine Learning Deep Learning Data Analysis
NumPy Pandas Matplotlib JQuery

EDUCATION

Poornima University B.Tech. - Computer Science & Engineering Percentage: 80.56 / 100	2023 - 2027
VIDYA MANDIR SR. SEC. SCHOOL DADABARI, KOTA, Kota 12 th CBSE Percentage: 88.40 / 100	2022
VIDYA MANDIR SR. SEC. SCHOOL DADABARI, KOTA, Kota 10 th CBSE Percentage: 84.80 / 100	2020

INTERNSHIPS

LNM Institute of Information Technology IT / Computers - Software Data Scientist Key Skills: Python Machine Learning Deep Learning Regression Models Feature Selection Feature Extraction Data Analysis Matplotlib NumPy Pandas Scikit-Learn Research Implemented and benchmarked lightweight deep learning architectures for image classification, analyzing trade-offs between accuracy, latency, and model complexity. Optimized neural networks using pruning and compression techniques, reducing computational requirements for resource-constrained deployment environments. Profiled model performance using FLOPs, parameter counts, memory footprint, and inference speed to identify deployment-ready solutions. Explored and applied Machine Learning, Deep Learning, Generative AI, LLMs, RAG, and Agentic AI concepts through hands-on projects and experimentation. Presented technical findings through comparative analysis reports, model recommendations, and project presentations.	01 Jun, 2026 - Present
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CELEBAL TECHNOLOGIES JAIPUR IT / Computers - Software Data Scientist Key Skills: Python NumPy Pandas Scikit-Learn Machine Learning Deep Learning Neural Networks Matplotlib Regression Models Developed and evaluated lightweight deep learning models for image classification, comparing baseline and optimized CNN architectures. Performed model profiling and optimization using parameters, FLOPs, latency, memory consumption, and accuracy metrics to improve deployment efficiency. Applied model compression techniques, including pruning and knowledge distillation, to reduce computational overhead while maintaining performance. Conducted research-driven implementation and analysis of lightweight neural network architectures based on published scientific literature.	18 May, 2026 - Present
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Built hands-on experience with Python, Machine Learning, Deep Learning, Generative AI, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), and Agentic AI workflows.

REDHAT (R-CAT) | IT / Computers - Software

16 Jun, 2025 - 31 Jul, 2026

Software Trainee

Key Skills: RHEL Automation Bash Networking Network Security Security Containerization

Administered RHEL systems, managing users, permissions, storage, networking, and system services.
Automated administrative tasks using Bash scripting and Linux command-line tools.
Configured SSH, firewalls, file systems, and logical volumes while troubleshooting server and network issues.
Monitored system performance, managed scheduled jobs, and implemented Linux security best practices.
Developed hands-on expertise in Linux system administration aligned with RHCSA (EX200) certification objectives.

GENX SOFT TECHNOLOGIES, JAIPUR | IT / Computers - Software

15 Jul, 2024 - 31 Jul, 2024

Software Trainee

Key Skills: HTML5 CSS Javascript React.js REST API GIT Github Node.js

Developed responsive web applications using Node.js, React.js, JavaScript, Tailwind CSS, and REST APIs, focusing on UI development, performance optimization, and user experience.

PROJECTS

<https://github.com/dakshxndrm/career-ai>

Key Skills:

Linux PODMAN Docker Bash SYSTEMD Automation DevOps Deployment Github Linux Administration

Project Link: <https://github.com/dakshxndrm/podman-portfolio-container>

Built and deployed a containerized portfolio application using Podman, Docker, Bash, and Systemd on RHEL 9.
Automated deployment and service management workflows through Bash scripting and Linux administration practices.
Applied containerization, process management, and troubleshooting techniques to ensure reliable application deployment.

Pravas (Tourism Safety Platform — SIH)

Key Skills:

Python REST API Web API Blockchain Artificial Intelligence Cloud Computing Microservices Data Analytics
Authentication UI Development SYSTEM DESIGN

Project Link: <https://github.com/dakshxndrm/PRAVAS>

Built an AI-powered tourist safety platform featuring anomaly detection, geo-fencing alerts, blockchain-based digital identity verification, and emergency incident response.
Developed real-time location tracking and panic alert functionality to improve tourist safety and enable rapid communication with authorities.
Implemented secure authentication and data protection mechanisms using blockchain principles and end-to-end security practices.
Designed a scalable architecture using APIs, cloud infrastructure, and microservices to support multilingual, offline-capable user experiences.
Performed system analysis, feasibility assessment, and technical documentation while presenting the solution in Smart India Hackathon 2025.

FuelSplit (Trip Expense Management Android Application)

Key Skills: Java XML Android Studio SQLite Firebase

Project Link: https://github.com/dakshxndrm/Fuel_split

– Developed an Android application for managing shared travel expenses, fuel costs, and trip settlements.
– Implemented SQLite-based data management and Firebase synchronization for secure expense tracking and storage.
– Designed modular Java components and XML interfaces following Android development best practices.

Career AI (AI-Powered Career Guidance Platform)

Key Skills: Python Django MySQL Scikit-Learn Pandas NumPy

Project Link: <https://github.com/dakshxndrm/career-ai>

– Developed a full-stack career guidance platform using Django and MySQL to provide personalized career recommendations through structured user profiling and assessment workflows.
– Designed a machine learning pipeline including data preprocessing, feature engineering, model training, and recommendation generation using Scikit-learn.
– Implemented secure authentication, REST-based workflows, and normalized database architecture following OOP and MVC principles.

Opportunities and Challenges for Improving the Development of Sustainable Modes of Transportation in India – E- Highway Buses

05 Sep, 2025

TRENDS IN TRANSPORT ENGINEERING AND TECHNOLOGY | STM JOURNALS | No. of Authors: 1

Key Skills: Research Report Writing Article Writing

The Indian transportation sector, while contributing significantly to economic growth, also plays a major role in air pollution and greenhouse gas emissions. These emissions have adverse effects on public health and worsen climate change, necessitating a shift towards sustainable transportation solutions. Electric buses have shown promise as an alternative to diesel buses, but their limited range poses a challenge for long-distance routes due to battery technology. This study investigates the potential of electric highway buses (E-Highway buses) as a viable solution. Operating similarly to trolleybuses by drawing power from overhead electrical wires, E-Highway buses eliminate the need for large onboard batteries, allowing for extended range, quicker charging times, and potentially lower operational costs. The research examines the feasibility of introducing E-Highway bus technology in India's diverse landscape, analyzing key factors such as infrastructure needs, costs, and ongoing research and development. It stresses the importance of using renewable energy sources like solar or wind power to power the overhead wires, maximizing environmental benefits and aligning with India's clean energy goals. The study also addresses challenges like infrastructure costs and visual impacts of overhead wires, proposing solutions to address these issues. Ultimately, it underscores the transformative potential of E-Highway buses in revolutionizing long-distance public transportation in India, leading to cleaner air, reduced emissions, and a more sustainable future. By addressing environmental, economic, and social aspects, E- Highway buses can play a vital role in helping India achieve its sustainable development objectives.

ACHIEVEMENTS

- Winner (1st Prize): Smart India Hackathon (SIH) 2025 Internal Round.

SEMINARS / TRAININGS / WORKSHOPS

AI WORKSHOP Institute Name: Poornima Institute of Engineering and Technology

Key Skills: Artificial Intelligence Artificial Neural Networks

CYBERSECURITY WORKSHOP (NETWORK SECURITY)

Institute Name: Poornima Institute of Engineering and Technology

Key Skills: WiFi Network Security Cyber Security Networking Protocol Computer Networking

IMs

- WhatsApp - 7976688083

PERSONAL DETAILS

Gender: Male

Marital Status: Single

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Known Languages: ENGLISH, HINDI

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