

S D KEERTHIGA DEVI

Software Developer

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EXPERIENCE

Full Stack Developer

Codec Technologies

Aug '25 — Present

India (Remote)

- Contributing to real-world full-stack projects using **JavaScript, React.js, Node.js, Express.js, and MongoDB** to build dynamic and scalable web applications.
- Enhancing development skills through hands-on experience with frontend and backend integration, **RESTful APIs**, and **version control** using Git.

Independent Researcher

KCCITM

Feb '25 — Jul '25

Greater Noida, India

- Conducted independent research on solving the **Multi-Objective Travelling Salesman Problem** using a **Hybrid DRL-MOA framework**
- Designed and implemented a scalable model combining **CNN-Transformer encoders, multi-decoder networks**, and **adaptive curriculum learning**
- Published findings on SSRN: <http://ssrn.com/abstract=5343852>

SKILLS

Web Development HTML5, CSS3, React.js, Tailwind CSS, Node.js, Express.js, MongoDB, RESTful API

Programming Languages Python, C++, JavaScript, SQL, Java

Machine Learning & AI Supervised & Unsupervised Learning, Recommendation Systems, Natural Language Processing (NLP), Computer Vision, Feature Engineering, Scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers

Data Handling & Processing Data Cleaning & Preprocessing, ETL Pipelines, Web Scraping, API Integration, NumPy, Pandas, Matplotlib, Seaborn, Statsmodels

PROJECTS

AI-Powered Blog Generator Link

- Built and deployed a full-stack blog platform using the **MERN stack**, integrating **Google Gemini API** for AI-generated content and **ImageKit** for optimized image handling.
- Developed an **admin panel in React.js** with secure authentication and blog management features for publishing and moderating posts.

Jobdex – AI-Powered Career & Hiring Platform Link

- Designed a secure AI platform with **Gemini API** for resume parsing, career simulation, and job-fit scoring.
- Built a **ResNet-18 deepfake detection** module integrated with **React.js** frontend and **Flask** backend to enhance candidate verification.

DRL-MOA for Multi-Objective Traveling Salesman Problem Link

- Developed a DRL-based solution for the **MOTSP** using a **Pointer Network** with CNN encoder and GRU decoder.
- Applied an **Actor-Critic framework** with scalarization and tuned hyperparameters using **Optuna**; deployed a demo via **Streamlit**.

EDUCATION

B Tech Computer Science & Engineering (AI/ML), KCCITM (GPA: 8.3)

2022 — Present

Greater Noida, India

- Relevant Courses:** Artificial Intelligence, Machine Learning, Data Structures, Algorithms, Computer Networks, Software Engineering

ACHIEVEMENTS

Finalist – SRM BUILDS 6.0

Recognized in the "Best of All Girls Team" category for developing Skill Vision, an AI-driven career guidance platform in a 36-hour hackathon.

GSSoC Contributor – GirlScript Summer of Code 2025

Contributed to open-source projects by fixing bugs, adding features, and improving documentation across multiple repositories.