

# VIVEK PRAKASH

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Portfolio : <https://vivek-prakash-portfolio.vercel.app>

## EDUCATION

**Dr. A. P. J. Abdul Kalam Technical University**

**IIMT College of Engineering**

Bachelor of Technology : Computer Science; CGPA: 8.55

**Maheshwari Public School**

Senior Secondary Education, Marks: 82.2%

**Bhai Parmanand Vidyamandir**

Secondary Education, Marks: 92%

Greater Noida, U.P, India

**September 2022 – June 2026**

Kota, Rajasthan, India

**April 2019 – March 2021**

New Delhi, India

**March 2019**

## SKILLS SUMMARY

- **Languages:** Python, JavaScript, TypeScript, Java, C/C++
- **Machine Learning & NLP:** Scikit-learn, TensorFlow (Deep Learning), NumPy, Pandas, Matplotlib
- **Web Development:** Flask, FastAPI, React.js, Next.js, Node.js
- **DevOps & Cloud:** AWS, Docker, Git, GitHub Actions, CI/CD pipelines
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Operating Systems:** Linux (Ubuntu, ROS, Raspberry Pi OS), macOS, Windows
- **Development Boards:** Raspberry Pi, Arduino Uno, ESP 32/ESP 32 Cam
- **Soft Skills:** Teamwork, Project Management, Communication, Decision-Making

## PROFESSIONAL EXPERIENCE

**Software Development Engineer | [MakeOver](#)** | full-time (Onsite)

**June 2025 – Present**

- Led a **5-member development team** to deliver **4 full-stack web applications** (client, business, admin, and community platforms) and **managed interns** while driving backend and frontend feature execution end-to-end.
- Leveraged **AWS S3, CloudFront, CloudWatch, SNS, KMS, Redis cache, Web Sockets and AWS Lambda** to enable scalable file storage, fast global content delivery, low-latency caching, data security, real-time messaging, monitoring and efficient serverless processing.
- Built and maintained **100+ RESTful APIs**, with sub-300ms average response times and integrated **payment portal** using **Razorpay**.
- Designed and implemented an automated **CI/CD pipeline** using **docker** and **github actions**, cutting deployment times by **65%**.

**Open Source Project Admin | [GSSOC'25](#)** | part-time (Remote)

**July 2025 – October 2025**

- Led **SentiLog AI** (GSSoC 2025) → Directed the repository, mentored **50+ developers**, and drove the **complete project roadmap** including architecture, issue triaging, code reviews, and release management.
- Built **micro-service stack** (React + Node.js + Flask) → aggregates **500+ news articles/day**.
- Deployed **bias-detection model** (76% accuracy) + multi-filter UI (sentiment / bias / emotion).
- Grew community **0 → 50 contributors**; reviewed **100+ PRs** with **70+ repository forks**.

**Open Source Contributor | [GSSOC'24](#)** | full-time (Remote)

**October 2024 – November 2024**

- Ranked **#3 out of 40,000 participants** in a competitive open-source program.
- Earned **7895 points** through consistent and impactful contributions across multiple repositories.
- Successfully submitted **200+ Pull Requests (PRs)**, ensuring high code quality and adherence to project standards.
- Maintained a **38-day contribution streak**, demonstrating dedication, problem-solving skills, and collaboration with diverse teams.
- Contributed to projects involving **web development, machine learning, and software solutions**.

## PROJECTS

**[SentiLog-AI](#)** | [github.com/openml-stack/SentiLog-AI](https://github.com/openml-stack/SentiLog-AI)

**July 2025 – October 2025**

- **Description:** Open-source AI platform analysing **500+ news articles/day** with mood journaling. Detects **political bias** and tracks 5+ emotional states to link media impact with personal wellness.
- **Features & Tech Stack:** Led micro-service stack (**React, Node.js, Flask, MongoDB, transformers**) with **76% accurate bias detection model**. Supported multi-filter UI (sentiment/bias/emotion) and cross-referenced **100+ journal entries**.
- **Impact:** Administrated repository under GSSoC 2025, mentored **50+ developers**, reviewed **100+ PRs**, and scaled community to **70+ forks & 25+ stars**.

**[Jeevika](#)** | [github.com/IkkiOcean/Jeevika](https://github.com/IkkiOcean/Jeevika)

**February 2024 – July 2025**

- **Description:** AI-integrated **automatic drug dispenser system** that connects doctors, patients, and pharmacies. Enables prescription generation, vitals scanning, and medicine dispensing via QR code and smart IoT interfaces.
- **Features & Tech Stack:** Combines React.js, Flask, AWS S3, Raspberry Pi, Linux, Arduino, IIOT Sensors, Stepper Motors and Gemini APIs to support doctor-patient integration, real-time vitals monitoring, SMS-based prescription delivery, OTC medicine purchase, and **secure AWS prescription storage**.
- **Impact:** Revolutionizes rural and urban healthcare access by automating diagnosis, medicine distribution, and health assessments, enabled **24/7 access** to basic healthcare in **low-resource areas**, reducing manual prescription handling by **90%**.

## AgroTech AI | [github.com/IkkiOcean/AgroTech-AI](https://github.com/IkkiOcean/AgroTech-AI)

October 2024 – November 2024

- **Description:** Open-source, web-based platform providing **machine learning solutions for agriculture**, including crop management, soil health assessment, pest control, and yield prediction.
- **Role: Top Contributor**
  - Developed **e-commerce website** for the platform.
  - Built **machine learning models** like Crop Disease Prediction, Fertilizer Prediction, and more.
  - Implemented **backend APIs** and **frontend interfaces** for ML models.
  - Collaborated with the team on application planning and future roadmap.
- **Tech Stack:** React, Tailwind, Flask, Node.js, Express, MongoDB, Python, Machine Learning, Deep Learning.

## SQL AI RAG Application | [github.com/IkkiOcean/SQL-AI](https://github.com/IkkiOcean/SQL-AI)

September 2024

- **Description:** AI-powered tool that translates **natural language into SQL queries**, enabling **100% code-free interaction** with databases for non-technical users.
- **Features & Tech Stack:** Built using **Flask, React.js, LangChain, Gemini Pro, and SQLite**, handling queries with **sub-500ms latency** for seamless real-time execution.
- **Impact:** Simplified database operations, reduced dependency on developers and analysts by **up to 70%** for routine database tasks.

## Sahkarya | [github.com/Sahkarya/Sahkarya](https://github.com/Sahkarya/Sahkarya)

March 2024 – June 2024

- **Description:** Sahkarya is a web-based **platform connecting citizens** with local authorities, featuring a complaint portal with image uploads, pinpoint location, and **IoT-based automatic problem detection**.
- **Features & Tech Stack:** Combines React.js for the frontend, Flask for the backend, and IoT devices for real-time problem detection. The admin panel is powered by interactive maps, analytics, and a user-friendly interface, enabling efficient issue management and fast response times.

## CERTIFICATES

- [Unsupervised Learning, Recommenders, Reinforcement Learning \(Stanford Online\)](#) November 2024
- [Advanced Learning Algorithms \(Stanford Online, DeepLearning.AI\)](#) October 2024
- [Postman API Fundamentals Student Expert \(Postman\)](#) October 2024
- [Supervised Machine Learning: Regression and Classification \(Stanford Online\)](#) September 2024
- [Data Science BootCamp \(Udemy\)](#) August 2024
- [Google Cloud Computing Foundation and Generative AI \(Google\)](#) November 2023