

ARUNIL KESHRI

JECRC UNIVERSITY

☎ 8690197069 ✉ arunilkeshri03@gmail.com 🌐 LinkedIn 🐙 GitHub

EDUCATION

Degree	Institute	Board/University	CGPA/Percentage	Year
B.Tech CSE Core	JECRC UNIVERSITY	UNIVERSITY	8.34	2026
AISSCE	Kendriya Vidyalaya No.1, Jaipur	CBSE	80.2%	2021
AISSC	Kendriya Vidyalaya No.1, Jaipur	CBSE	83.4%	2019

SKILLS AND EXPERTISE

Programming Languages: C | C++ | Python | SQL | Advanced Java

Skills: Machine Learning | Data Science | Deep Learning | Data Visualization | Data Preprocessing | DSA

Libraries/Frameworks: Numpy | Pandas | Matplotlib | Selenium | BeautifulSoup | Arduino IDE | MQTT | Blynk

Software/Tools: VS Code | MySQL | Git | GitHub | PyCharm | Anaconda | Notion | Google Colab

PROJECTS

Automatic Assignment Notifier | Self Project

- Built **Python-based** Telegram bot to automate assignment alerts, significantly improving deadline visibility by **70%**
- Integrated Telegram Bot **API** with a custom backend system to enable **real-time** push notifications with minimal delay
- Designed a scalable notification architecture to support dynamic assignment entries, cutting manual follow-ups by **60%**
- Implemented robust error handling and comprehensive **admin features** to ensure **24/7** service uptime and reliability

Automatic Parking Management System | Self Project

- Developed plate detection system using **Python**, **OpenCV**, and **Tesseract OCR**, achieving **85%+** accuracy
- Integrated a thermal printer via python-escpos to print timestamped receipts, improving operational traceability by **90%**
- Created automated billing module with **Numpy** and **datetime**, improving overtime fee accuracy by **95%**
- Built a system combining OCR, time tracking and billing automation, reducing delays by **75%** in high-traffic hours

Stock Market Predictor using ML | Self Project

- Trained **Linear Regression** model using **scikit-learn** and **Pandas** on **5** years of NSE data, achieving **78%** accuracy
- Fetches real-time data with **yfinance**, applying data smoothing, moving average filters and **Matplotlib** for visualization
- Scripted **pipeline** in Python, predicting daily closing prices using trend indicators, **SMA**, **EMA** and **volume analysis**
- Evaluated model using **RMSE (2.3)** and plotted predicted vs actual trends to generate actionable insights for investors

Neural Disaster Response Analyzer | Self Project

- Built an **LSTM-based** network with **Keras** and **TensorFlow**, classifying tweets into **6+** categories with **82%** accuracy
- Streamed and ingested live tweets using **Tweepy** applied **NLTK**, **spaCy** and **GloVe** embeddings for feature extraction
- Trained on **10k+** labeled tweets, validated with Stratified **K-Fold** and optimized for **F1** score and recall crisis scenarios
- Structured output for dashboard integration using **Plotly** and **Streamlit**, enabling real-time visualization for responders

COMPETITIONS

IoT-Based Smart Medicine Dispenser | National Healthcare Hackathon

Jan'25 – Feb'25

- Ranked **6** of **100+** teams, earning a **Rs.2100** prize for innovative medication adherence tracking using low-cost hardware
- Engineered a **21-slot** dispenser using **ESP32**, **NeoPixel**, LEDs, DFPlayer Mini (for voice) and real-time **RTC** module
- Built a 3D-printable modular enclosure using **Fusion360**, integrated with **IoT** compartment powered by **Blynk**
- Enabled daily dose alerts and remote monitoring, helping reduce missed doses by **60%** in pilot runs in rural test zones

AI-Powered Bail Recommendation System | Smart India Hackathon 2024

Aug'24 – Sep'24

- Designed a smart bail advisory platform using **NLP**, automating recommendations with **88%** decision consistency
- Developed a full-stack system with **Django REST**, **PostgreSQL** and JWT auth, serving **500+** case records
- Integrated **XGBoost** and **TensorFlow** models for classification, reducing manual workload by **>40%** for legal aides
- Deployed using Docker, Redis caching and Kubernetes, ensuring horizontal scaling and **< 500ms** response time load

COURSEWORK INFORMATION

Mathematics: Advanced Calculus | Linear Algebra | Complex Analysis | Probability and Statistics | Differential Calculus

Core: Computer Organization and Design | Operating Systems | Database Management Systems | Computer Networks |

Theory of Computation | Software Engineering Project Management | Basic Electrical and Electronics Engineering

MOOCs : Machine Learning Specialization | Deep Learning Specialization (By Stanford University)

POSITIONS OF RESPONSIBILITY

Core Team Member, Swaraag Musical Club | JECRC University

Sep'23 – Nov'23

- Managed logistics and timelines for **5+** Swaraag events, leading **20+** members and improving on-time execution by **30%**
- Co-managed budgets worth **Rs.80k+**, ensuring resource availability, full volunteer coverage and audience engagement