Vinay Kartheek Bathala

B.Tech CSE (AI & ML) | Software & Backend Development | Java, Python, SQL, REST APIs

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SUMMARY

Third-year B.Tech CSE (AI & ML) student seeking a Technology Analyst role, with hands-on experience building REST APIs and database-backed applications in Python (FastAPI, SQLAlchemy) and Java. Currently interning on assessment and telemetry processing and building a privacy-aware AI voice-agent platform for banking. Grounded in data structures, OOP, and SQL/DBMS, with working knowledge of machine learning.

EDUCATION

SRM Institute of Science and Technology, Kattankulathur Aug 2024 – Jun 2028 (Expected)

B.Tech, Computer Science Engineering (Artificial Intelligence & Machine Learning) *CGPA: 9.0/10.0*

TECHNICAL SKILLS

Languages: Java, Python, SQL, C++, JavaScript, TypeScript

Backend & Web: FastAPI, REST APIs, SQLAlchemy, Servlets, JSP, JDBC, Node.js, Express.js, React

Databases & Core CS: MySQL, PostgreSQL, DBMS, Data Structures & Algorithms, OOP

AI/ML: Machine Learning, Deep Learning, NLP, Computer Vision, Scikit-learn, PyTorch, Pandas, NumPy

Tools: Git, GitHub, Docker, Linux, Postman, MySQL Workbench

EXPERIENCE

AI/ML Intern – MentiScope Jun 2026 – Present

IIT Madras Research Park / IITM Nirmaan Incubator

- Developed Python backend services (FastAPI, SQLAlchemy) for structured assessment and telemetry processing.
- Built REST-based integration components with React, TypeScript, and Express.js connecting multiple cognitive services, with persistent session handling and defensive error handling.

PROJECTS

KURAL – Knowledge-driven Unified Response & Assistance Layer Ongoing

Python, FastAPI, SQLAlchemy, REST APIs, LLMs

- Designing a privacy-aware AI voice-agent platform for banking customer interactions, covering structured issue capture, callback scheduling, human escalation, and auditable service workflows.
- Building the backend in Python with FastAPI and SQLAlchemy: REST APIs, persistent session data, conversation state management, and audit events.
- Implementing a deterministic policy engine so the LLM interprets customer intent while business rules govern actions and approved responses, with controlled exposure of customer data to external AI providers.

Online Library Management System 2025

Java, Servlets, JSP, JDBC, MySQL

- Built a Java web application with Servlets and JSP, handling server-side requests for library workflows.
- Implemented MySQL connectivity through JDBC, including CRUD operations on persistent application data.

Employee Salary Prediction Jun – Jul 2025

Python, Scikit-learn, Pandas, NumPy, Random Forest, Streamlit

- Built an end-to-end regression pipeline: preprocessing, feature engineering, Random Forest training, hyperparameter tuning, and evaluation.
- Performed exploratory data analysis and deployed an interactive prediction interface with Streamlit.

ACHIEVEMENTS & CERTIFICATIONS

- **3rd Place**, IDEATHON, E-Summit 2026, E-Cell SRMIST
- **Programming in Java**, NPTEL (IIT Kharagpur): Elite + Gold, Top 5%, 96%
- **Fundamentals of OOP**, NPTEL (IIT Roorkee): Elite Certification

LEADERSHIP & CAMPUS EXPERIENCE

Vice Secretary – ACM-W Student Chapter, SRMIST Aug 2024 – Present

- Coordinate student initiatives and events; progressed from Corporate-domain involvement to Vice Secretary.

Placement Facilitation Volunteer – Team PLACFV, SRMIST Sep 2025 – Oct 2026

- Supported recruitment logistics, interview scheduling, recruiter coordination, and student issue resolution.

Sponsorship & Finance Domain Member – Alumni Affairs, SRMIST Sep 2026 – Present

- Support sponsorship coordination, financial planning, and stakeholder communication for alumni initiatives.