

Utkarsh Kumar

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EDUCATION

Kolhapur Institute of Technology

Bachelor of Technology in Computer Science, CGPA: 8.71

Kolhapur, IN

Sept 2024 – Expected June 2028

PROJECTS

Customer Churn Prediction with Segmentation

Sept 2026

Python, Scikit-learn, Pandas, NumPy

- Built a hybrid ML pipeline on the IBM Telco dataset: K-Means customer segmentation followed by per-segment classifiers (Logistic Regression, Decision Tree, SVM).
- Benchmarked segment-wise models against a single global model on F1 and recall, improving recall from 73.2% to 80.03%.

CampX – Campus Portal

Apr 2026

Node.js, Express, MongoDB, bcryptjs, Nodemailer

- Built a campus resource-sharing portal with roster-validated signup, OTP email verification and session-based authentication, structured in an MVC architecture.
- Designed secure account flows (password reset, OTP-verified account deletion) via dedicated API routes, with bcryptjs hashing and automated Nodemailer emails.

Viora – Mood-Based Music App

Feb 2026

Node.js, Express, MongoDB, EJS, face-api.js

- Built a full-stack music app that detects 7 facial emotions in the browser using face-api.js (pretrained model) and auto-generates mood-matched playlists with autoplay.
- Implemented JWT authentication, playlists, favorites and listening history in an MVC architecture, with YouTube-based streaming that avoids Data API quota limits.

Aurex – Voice-Controlled System Automation

Dec 2025

Python

- Built a Python voice assistant that automates everyday system tasks (launching apps and websites, playing YouTube media, setting alarms) through spoken commands.
- Integrated live data features (weather and web search) and designed a command-matching layer for hands-free control of the desktop.

TECHNICAL SKILLS

Languages: C, C++, Python, Java, JavaScript, HTML, CSS

Frameworks: Node.js, Express.js, NumPy, Pandas, Matplotlib, Scikit-learn

Databases: MongoDB, MySQL

Developer Tools: Git, GitHub, Cursor, VS Code