Kush Thaker

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EDUCATION

- **NMIMS (Mukesh Patel School of Engineering)** — Mumbai
  B.Tech Integrated – Electronics and Telecommunications CGPA:3.51/4 — *2019 – 2025*

PROJECTS

- **Node.js Express Chat Backend** : — Node.js + Express
  - A group chat backend service built with Node.js, Express and Websockets.
  - Uses WebSockets to handle real-time communication.
  - Allows users to view messages, join and leave chat channels via the REST endpoints.
  - Express handles REST APIs for user and channel CRUD, joining and leaving channels
  - REST APIs to view message history and channel info
  - Separate micro-service to asynchronously persist messages to a Postgress Database
  - *Tools Used* - Redis Streams, Docker, @slonik/migrator (to handle migrations)

- **Sientia** : — Node.js + Express
  - A learning platform backend service built with Node.js, Express, and Sequelize.
    - Allows users to ask their doubts and helps understand content by creating quizzes and content summary via the REST endpoints.
    - Express handles REST APIs for user CRUD, task creation, and quiz generation and also retrieve task and quiz information.
    - Separate micro-service for using the AI model for content and quiz generation also implements a quiz evaluation mechanism
    - Uses PostgresSQL as the Database.

- **Plant health detection system**: — Python
  - Created a system that uses NDVI to determine plant health, the system uses multiple sensors like temperature, humidity, soil moisture along with NDVI to determine overall plant health.
  - Used open cv to increase the contrast of the captured image using contrast stretching method, applied the NDVI formula to the high contrast image and then applied a color map to get a better visualization of the index.

PROGRAMMING SKILLS

- **Languages**: Python, JavaScript, SQL (Postgress), Go

  Technologies: Django, Express, JavaScript, Typescript, Redis, Terraform, Azure, AWS PostgreSQL, WebSockets, Docker, Git, Raspberry Pi, Arduino