

## Chailex Sarma

Second-Year Postgraduate  
Department of Computer Science and Engineering

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[Linkedin](#), [Github](#)

### EDUCATION

| Degree    | Institution                | CPI/% | Year           |
|-----------|----------------------------|-------|----------------|
| M. Tech   | IIT Gandhinagar            | 8.2   | 2022 - Present |
| B. E      | Assam Engineering College  | 81.69 | 2017 - 2021    |
| Class XII | Kendriya Vidyalaya Narangi | 81.20 | 2015 - 2016    |
| Class X   | Kendriya Vidyalaya Narangi | 9.4   | 2013 - 2014    |

### EXPERIENCE

- **Assistant Manager, Vedanta Resources | Digital Capability Anchor** [Aug 2021-May 2022]
  - **Within 4 months**, successfully **onboarded 25% of a 12,000+ workforce** onto the Future Skills Prime Digital Learning platform, **up from a mere 4%**, resulting in employees **earning 16,000+ badges**. Additionally, led successful cohorts in PowerBI and Azure AutoML in collaboration with Microsoft.
  - Driven the **Vedanta Spark project** in partnership with startups, empowering internal teams across multiple Business Units to implement cutting-edge technology solutions within Vedanta's mining facilities.
- **Teaching Assistant, IIT Gandhinagar** [Dec 2022-Present]
  - **Introduction to Computing**: Led Python lab sessions for **60+ students**, covering topics such as functions, strings, loops, conditionals etc. on Replit. Invigilated and evaluated examination papers for a class of **350+ students**.
  - **Probability, Statistics and Data Visualization**: Guided a class of **60+ students** through engaging lab sessions, and prepared assignments on Python libraries such as **Numpy, Matplotlib, Pandas, Seaborn, SciPy** on Google Colab.
- **Biolege Healthtech Private Limited | Co-Founded** [2018-2021]
  - **Mentored** a team of over **7 interns** in the development of a robust full-stack website, equipped with diverse functionalities. This included enabling customers to place **online orders**, schedule **health checkup appointments**, and access a **Blood bank** connecting those in need with willing donors.
  - Established collaborative partnerships with multiple hospitals in Guwahati and Hojai in Assam, to offer seamless **online booking solutions for customers**, enhancing accessibility to healthcare services.
  - Partnered with **Dr Lal PathLabs and HAMM** to bring convenient home blood tests to our customers, enhancing their healthcare experience.

### PROJECTS

- **Eye Gaze Tracking, Decrypt Marketing Services | Summer Internship Project** [May-July 2023]
  - Engineered a **real-time eye tracking** model using **MediaPipe**, which is able to collect **478 real-time facial landmarks**.
  - Implemented feature selection on the data and employed multi-output regression for simultaneous (x, y) coordinate prediction.
  - A **real-time calibration** interface for precise eye tracking & enhancing the desktop application with a **Tkinter** based interface.
- **Epilepsy Detection | Semester Long Project** [Jan 2023-April 2023]
  - Conducted an investigation across the **time, frequency, and wavelet transform domains** to gain deeper insights into the EEG data's accuracy in epilepsy detection using Machine Learning algorithms.
  - Used '**lazy predict**' to explore diverse classification algorithms and performed feature extraction on the EEG data, leading to an impressive achievement of **99% accuracy**.
- **Nakhyatra | Smart India Hackathon** [Aug 2020]
  - Used **MERN stack** to build a website which keeps record of all the criminal related information in one place and integrated Google Map's to track criminals in real time using **GAN powered CCTV image analysis**.
  - **Location identification** via social media information, ATM and Bank transaction data present with police, and criminal record retrieval with **Face Detection** Algorithms.
  - Used **Fast-two-sms APIs and Nodemailer Email Engine** to escalate emergency situations to higher Authorities level by level.

### SKILL SUMMARY

- **Languages**: Python, C++, Javascript
- **Tools, Frameworks and Libraries**: ReactJS, ExpressJS, Postman, Numpy, Pandas.
- **General**: Machine Learning, Technical Analysis of Stocks and Index, Options Trading.

### ACHIEVEMENTS, AWARDS & RESPONSIBILITIES

- Secured the **3rd rank** in the Computer Science and Engineering (CSE) Department's B.E. program. [2021]
- Achieved **First Place** in the intensely contested regional level "Smart India Hackathon". [2020]
- **Finalist** in the highly competitive national level "Smart India Hackathon". [2020]
- Recognized as a **Finalist** in the North East Hackathon. [2019]
- **Core Member, Google Developers Student Club**: Conducted coding sessions, Organized technical events in college, Mentored internal projects of college, took interviews for DSC. [2020-2021]
- **Core Member, AEC Coding Club**: Conducted Web Development Bootcamps, Competative Programming contests, Sessions on basics of Python and Machine Learning. [2019-2021]