VINIT TODAI

+1 (872) 810-5552 | vinit.todai@u.northwestern.edu | linkedin.com/in/vinit-todai | vinit-2997.github.io

EDUCATION

Northwestern University, USA — **Sep 2021 – Dec 2022(Exp.)**
Master of Science in Artificial Intelligence — *GPA: 4.0/4.0*

University of Mumbai, India — **Aug 2015 – Jun 2019**
Bachelor of Technology in Computer Engineering — *GPA: 8.48/10*

TECHNICAL SKILLS

Languages: Java, Python, C++, MySQL
Web Technologies: Microservices, Spring, Hibernate, RESTful API, JSON, HTML, CSS, Javascript, Angular, Node.js
Frameworks/Tools: Git, Eclipse, IntelliJ, Jenkins, Openshift, SonarQube, Jira, Agile Central

EXPERIENCE

Barclays Global Service Centre, Pune, India — **Jul 2019 – Aug 2021**
Graduate Analyst (Software Engineer), Barclaycard UK

- Developed REST APIs for iPortal, which provides a single point of access to all Barclays Corporate Banking services, impacting over **200,000+ users globally** (Java, Spring, Hibernate, MySQL)
- Played a vital part in the end-to-end delivery of **5 APIs** following an agile project development methodology, right from requirement analysis, development, unit and integration testing, deployment and final release
- Directed a **team of 8 engineers** for the development of 'Assist', a platform that connects task publishers—who have an innovative idea, and task contributors—who want to acquire new skills, saving **762+ man-hours annually**, with **230+ users** across Barclays (Java, Spring, Hibernate, MySQL, Angular)
- Spearheaded the InnerSource initiative to reuse software modules in projects across the department by unifying with 'Assist', where colleagues can contribute by hosting a workshop or publishing a blog on how to reuse their project code

PROJECTS

Brain Controlled Wheelchair [Demo] | University of Mumbai, India

- Led a **team of 3 researchers** to develop a brain-controlled wheelchair with **98% accuracy** by reading brainwaves with an EEG headset and streaming data to an Android app that interprets brainwaves and translates them into commands
- Integrated the system with a Raspberry Pi based wheelchair, and implemented obstacle detection and avoidance using Tensorflow Mobile; lowering the potential cost from **$2000 to $400**

AirMusic–Generate Music with your moves [Demo] | Tensorflow World Hackathon

- Developed a real-time music production system that uses a camera to evaluate 17 human pose keypoint, estimates human postures with Posenet, a Tensorflow Deep Learning model, and maps them to melodies from piano and drums

GestureAssistant [Demo] | Global PyTorch Hackathon

- Developed a virtual assistant in Python that uses Pytorch to turn 5 gestures into desktop commands in real time, such as opening a browser, Microsoft Word, or launching a video player, thus automating the desktop without the need to press a key

BrainPort - A VR Journey with your Brain [Demo] | Facebook DevC Challenge

- Designed a VR environment in React 360 and integrated it with a brainwave headset, analyzing 5 brainwave bands in real time and teleporting the user to 4 different locations in the virtual world with his thoughts, such as beaches or mountains

LEADERSHIP / EXTRACURRICULAR

Maker Relations Officer | Maker Mela Core Team, RiiDL — **Aug 2016 – Jan 2018**

- Interacted with 1000+ innovators, startups, and technology leaders from across the globe and collaborated with 20+ makerspaces, providing them a platform to showcase their inventions at **Asia's largest Innovator Gathering**, **Maker Mela**)
- Supervised a team of 5 and collaborated with multiple other teams to organize Maker Mela for 2 consecutive years, with **200+ innovators and 50,000+ visitors** from across the world

HONORS AND AWARDS

- **Keynote Speaker**, **Hackathon Winner [Link]**—MongoDB World '19, New York (900+ participants from 22 countries)
- **5th Place, AWS DeepRacer League**—A self-driving car race driven by ML, conducted at Barclays (200+ participants)
- **Finalist, India Innovation Challenge Design Contest**, a Tech-Startup competition arranged by the Govt. of India, Texas Instruments and IIM Bangalore, for the project Brain Controlled Wheelchair (Top 30 from 26,511 participants)
- Featured on **front page of Maharashtra Times**, India's largest selling newspaper, for project Brain Controlled Wheelchair