

# SPANDAN MAHESH PATIL

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## EDUCATION

### University of Southern California

Los Angeles, CA

#### Master's of Science | Major - Computer Science

August 2024-May 2026

- Relevant Course work: Analysis of Algorithms, Database Management Systems

### University of Mumbai

Mumbai, India

#### Bachelor of Engineering | Major - Information Technology

August 2018-May 2022

- CGPA : 9.78/10 with Distinction
- Relevant coursework: Advance Data Structures and Algorithms, Advance Data Management, Cloud Computing.

## EXPERIENCE

### Tata Consultancy Services

Mumbai, India

#### Systems Engineer - Financial Services

July 2022-July 2024

- Led transformation of banking platform to a micro-services architecture leveraging REST API endpoints, enhancing system scalability by 40% and development efficiency by 25%, thereby boosting company's growth and operational agility
- Constructed a blueprint to separate core banking functions from client-specific requirements, improving operational efficiency by 30%, reducing customization efforts by 40%, and decreasing implementation time by 25%
- Facilitated cross-functional collaboration for product integration, conducting initial testing and debugging, resulting in a 30% reduction in integration issues and a 20% acceleration in project timelines
- Delivered comprehensive training sessions for new team members on project details, methodologies, and tools, resulting in a 30% increase in project efficiency and facilitating a smoother transition for new hires

### Tata Consultancy Services

Mumbai, India

#### Software Engineer Intern - Financial Services

March 2022-June 2022

- Developed a Node.js-based Payment Gateway prototype integrating PSD2 open-banking APIs from ING and Deutsche Bank, resulting in a 40% increase in client acquisition success rate

### Gaia Smart Cities

Mumbai, India

#### Software Engineer Intern

April 2020-July 2020

- Collaborated with a senior developer to create a speech recognition neural network model improved accent recognition accuracy by 15% and reduced word error rate by 5.8%, enabling offline control of smart devices on STMicroelectronics chips

### Gaia Smart Cities

Mumbai, India

#### Software Engineer Intern

December 2019-January 2020

- Engineered a cross-platform data retrieval system for Android and iOS, monitoring 20+ cold storages via BLE beacons, enhancing temperature tracking efficiency by 40% and cutting down product spoilage by 25%

## PROJECTS

### FLIP (AI-Powered E-Book Analysis and Assessment Tool)

July 2021-April 2022

- Devised a web-based interactive reading platform using ReactJS, NodeJS, Python, and MongoDB Atlas, allowing users to upload e-books, receive textual summaries of each page with multiple-choice questions and fill-in-the-blanks assessment
- Utilized MongoDB Atlas for efficient data storage, implemented NLP Transformers with Python for text summarization and assessment generation, and developed REST API endpoints using Node.js for seamless data transmission to ReactJS frontend

## PUBLICATIONS

- Authored and published the paper "State-of-the-Art Approach to e-Learning with Cutting Edge NLP Transformers: Implementing Text Summarization, Question and Distractor Generation, Question Answering" in International Journal of Advanced Computer Science and Applications (IJACSA), Volume 13 Issue 1, 2022, ISSN: 2156-5570

## SKILLS & CERTIFICATIONS

- Technologies: NLP, AI/ML, Data Analytics, Android and IOS Development, DBMS, MS Office, Git, Jenkins, Kubernetes, AWS
- Programming Languages: Python, JavaScript, Swift, Java, PHP, HTML, CSS, and C++
- Soft Skills: Teamwork, Leadership, Problem-Solving, Time Management, Conflict Resolution, Adaptability, Customer Service
- CS50 – Introduction to Artificial Intelligence with Python and PH125.8x – Data Science: Machine Learning from Harvard by edX
- DL0120EN – Deep Learning with TensorFlow from IBM and CS198.2x – Blockchain Technology from BerkeleyX by edX