Nayan Sanjay Bhatia

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EDUCATION

University of California, Santa Cruz	**September 2021 - May 2023**
Masters of Science in Computer Science and Engineering (CSE)	
K. J. Somaiya Institute of Engineering and IT, University of Mumbai	**August 2017 - June 2021**
Bachelors of Engineering in Computer Engineering	**CGPA 8.26/10**

RELEVANT WORK EXPERIENCE

KJSIEIT, Mumbai, India (Virtual)   **June 2021 - July 2021**
Teaching Instructor for Summer Internship Program
- Taught introductory and intermediate level Python, Numpy and Pandas to 150 students.
- Responsible for drafting and correcting assignments.

Primary Health Centre Piliv, Under Zilla Parishad Solapur, India   **April 2020 - July 2020**
Volunteer Software Developer
- Created an Admin Panel using MERN Stack and deployed on AWS.
- Implemented the MongoDB Database and the GraphQL API.

Software Development Cell KJSIEIT, Mumbai, India   **June 2018 - September 2018**
Software Intern
- Created a web-based prototype for RUSA (Rashtriya Uchchatar Shiksha Abhiyan) using JavaScript and jQuery to help multiple institutes log their details about their departments and faculty qualifications.

TECHNICAL PROJECTS

1. Automation Society Security Task [Abstract and Presentation Link]   **September 2020 – February 2021**
- Created an automation system for gathering the identity of the visitors with timestamp and temperature check.
- Implemented the Gait Recognition Model using OpenPose and KNN and measured temperature using MLX 90614.

2. Measure Visual Acuity for Non-Medical Workers [Video Link] [Paper Link]   **September 2019 – February 2020**
- Developed a low-cost and easy-to-use solution that can give accurate visual acuity readings.
- Created a REST API that gives the appropriate optotype.
- Used MongoDB database to store patient's data and used Twilio API and SMTP for sending the result to the users.

3. Crop Yield and Health [Video Link]   **August 2019 – September 2020**
- Created a dashboard for the farmers that determines the number of germinated plants and its density using YoloV3 model so that the barren area can be utilized effectively.
- Calculated the health of the plant by using Normalized Difference Vegetation Index (NDVI) and OpenCV.

SKILLS

- Programming Languages and Database Systems: Python, SQL, Java, C, MySQL, MongoDB.
- Web Technologies: Node.js, Express.js, GraphQL, PHP, JavaScript, jQuery.
- Python libraries: TensorFlow, PyTorch, Keras, NumPy, Pandas, Matplotlib, Flask, OpenCV.
- Key Competencies: Quick Learner, Conceptual thinker, Effective Communicator, Team player, Public Speaker, Leadership, Product Management, Project & Program Management, Data Analytics.

LEADERSHIP INITITATIVES

Chairperson, IoT Cell, KJSIEIT   **June 2020 - May 2021**
- Responsible for the overall organization and running of the club, including promotion and club development.
- Organised and conducted events and seminars attended by over 100 students.

Team Leader, Project DeepBlue (Intercollegiate Competition), Mastek   **September 2019 – February 2020**
- Managed team workload distribution and ensured consistent good performance.
- Successfully led my team to win the Mastek's Deep Blue Season 5 among the 348 registered teams.

ACADEMIC HONORS/AWARDS

- Part of the Winning team of Smart India Hackathon Software Edition,2019 (Team Random-6) for the problem statement "Finding the nearest parking lot in vicinity" (Out of 52000 entries 319 teams were declared winners for their respected problem statements).
- "Measuring Visual Acuity using Periscope and Android Application", 4th International Conference on Advances in Science and Technology (ICAST 2021) SSRN, Elsevier.
- Selected in top 12 teams for AI Hackathon '19 conducted by Centre for Development of Advanced Computing. (Registered teams approximately 250 from all over India).
- 1st prize under Societal Category for the concept "Vehicular Ad-Hoc Network and IoT" in Idea Competition organised by KJSIEIT-IIC.
- Shortlisted by MIC (MHRD Innovation Cell) for Round 2 (total 410 teams) of National Innovation Contest among 9000+ prototypes from all over India.
- Runner-Up in the National Level Project Competition INTECH-2021 organised by KJSIEIT.