

# Aditya Vyas

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## EDUCATION

### UNIVERSITY OF CALIFORNIA IRVINE, USA

MS IN BIOMEDICAL ENGINEERING  
Sept 2018-June 2020  
GPA: 3.5 / 4.0

### SHRIG S INSTITUTE OF TECH. AND SCI. INDORE, INDIA

BE IN BIOMEDICAL ENGINEERING  
Honors Degree  
Aug 2013 - Aug 2017  
GPA: 7.63 / 10

## COURSEWORK

### GRADUATE

Neural Networks and Deep Learning  
Sensory Motor Systems  
Organ Transport Systems  
Intro To Clinical Medicine  
Applied Engineering Math I, II

### UNDERGRADUATE

Artificial Neural Network  
Medical Image Processing  
Programming Tools and Technique  
System Designing with  
Microprocessors  
Bio-Informatics  
Bio-Mechanics  
Biomedical Statistical Signal  
Processing

## SKILLS

### TECHNICAL

Python • R • Java • Matlab •  $\text{\LaTeX}$   
C • C++ • HyperMesh • HTML  
CorelDraw • PageMaker • Muse  
After Effects • Premiere Pro  
OS:  
Windows • Mac • Linux

### INTERPERSONAL

Problem Solving • Teamwork  
Time Management • Work Ethic  
Public Speaking • Critical Thinking

## INTERESTS

Artificial Intelligence • Machine  
Learning • Data Science  
Biomedical Computational  
Technologies

## EXPERIENCE

### UC IRVINE | GRADUATE TEACHING ASSISTANT

April 2019 - Present | Irvine, California

- Assisted the faculty members by conducting discussions, midterm and quiz sections for the undergraduate course 'Introduction to Software Engineering' (IN4MATX 43).

### IICAE | RESEARCH ASSISTANT

December 2017 - February 2018 | Indore, India

- Performed Finite Element Analysis (FEA) of the femur bone for bone-breaking prediction
- Gathered CT Scans data from several hospitals to increase study power
- Also, Completed professional training program in FEA

### CHL HOSPITAL | BIOMEDICAL ENGINEER ASSISTANT

June 2016 - July 2016 | Indore, India

- Assisted in installation, calibration, and maintenance of medical equipment
- Gained hands-on experience in hospital management system

### TECHOZ SOLUTIONS | INDUSTRIAL TRAINEE

December 2014 - January 2015 | Indore, India

- Assembled and remodeled various small-scale embedded system projects

## PROJECTS

### SNAKE BOT | INDEPENDENT PROJECT

- Used Genetic Algorithm and Reinforcement Learning to play Snake Game

### SWAY ANALYSIS | ACADEMIC PROJECT

- Formulated an analysis method to distinguish posture deformities
- Recorded videos of a person standing still for one minute and coordinated with 10 subjects
- Developed an image processing algorithm with fellow students

### HEART BEAT SENSOR | ACADEMIC PROJECT

- Built an embedded system to measure heart rate
- Investigated components and methods to reduce cost and size of the system

### FACEBOOK PAGE POST SCHEDULER | INDEPENDENT PROJECT

- Created a JAVA application to automatically schedule posts on Facebook page
- Integrated a web crawler to increase the efficiency and to reduced the time to schedule a post

### CLINIC MANAGEMENT APPLICATION | INDEPENDENT PROJECT

- Developed a JAVA based application and integrated MySQL to deal with large sets of data

## CERTIFICATIONS

- 'Excellence in Engineering Communications' Activate to Captivate program, UCI
- 'Improv For Teaching', Activate to Captivate program, UCI
- 'Machine Learning A-Z: Hands-on Python and R in Data Science', Udemy