

MISHA MODY

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EDUCATION

Northeastern University - Silicon Valley Campus, San Jose, CA

Master of Science in Computer Science

Teaching Assistant: Programming Design Paradigms (Object Oriented Programming)

Expected May 2023

GPA: 3.83/4

Symbiosis Institute of Technology, Pune, India

Bachelor of Technology in Information Technology

Courses: Web Technology, Software Engineering, Artificial Intelligence, Machine Learning, Data Structures

June 2017 - July 2021

GPA: 8.61/10

Rank 1

SKILLS

- **PROGRAMMING:** HTML, CSS, JS, NodeJS, Python, R, Java, MySQL, NoSQL, Redis, PHP, C++, C
- **FRAMEWORKS/TOOLS:** ReactJS, Bootstrap, Redux, Keras, GitHub, TensorFlow, Express.js, MongoDB, jQuery, UML

WORK EXPERIENCE

SYMBIOSIS CENTRE FOR MEDICAL IMAGE ANALYSIS (SCMIA)

Pune, India

AI Research Intern

July 2020 - July 2021

- Programmed a model to detect Rib Fractures on 700 slices of chest CT scans by incorporating deep learning frameworks (CNNs)
- Integrated the U-Net & Res-Net architecture to enhance image segmentation model to achieve an increased dice coefficient of 86.6%, sensitivity of 94.3 % & specificity of 98%
- Researched and implemented 6 image augmentation techniques, 8 loss functions & 7 learning rate schedules & decays to optimize hyper-parameters & increase dice score by 11%

CAREERNINJA, BENINJA SOLUTIONS PVT. LTD

Mumbai, India

Software Development Engineer Intern

Dec 2019 - June 2020

- Automated the CV module; a premium feature to let users download PDF versions of CVs populated with data fetched from back-end, was purchased 10,000 times
- Developed key front-end pages such as [Pricing Page](#) & [Landing Page](#) in React library, driving up daily new signups by 20%
- Designed and developed the Certificate of Completion resulting in 20,000 downloads
- Collaborated with cross-functional teams in leveraging Google Analytics for A/B testing of user behavior; discovering core business metrics to increase engagement rates by 10%
- Designed a dashboard to serve as an Admin Panel to track daily activities and new signups using React-Tables

PROJECTS

RESTAURANT REVIEW MANAGEMENT, KHOURY COLLEGE

Sept 2021 - Dec 2021

- Built a web-application for storing restaurant information & allowing users to rate, review and filter/query restaurants
- Implemented 3 versions of project with front-end in Node + Express & back-end in MySQL, NoSQL and Redis databases

SOCIAL MEDIA SENTIMENT ANALYSIS, SYMBIOSIS INSTITUTE

March 2020 - May 2020

- Developed python scripts to extract data from Twitter & YouTube using BeautifulSoup library
- Built a model for text mining & sentiment analysis; incorporated Naive Bayes, SVC, Logistic Regression, SGD Classifier from Scikit-Learn & NLP based Tokenization, Lemmatization, Vectorization
- Presented the results in the form of Word-Clouds & graphical charts using NumPy, Pandas, Seaborn, Matplotlib

ALUMNI MANAGEMENT SYSTEM, SYMBIOSIS INSTITUTE

July 2019 - Oct 2019

- Led a team of 5, executing Agile-Scrum methodology to create software that accelerates networking with Symbiosis alumni
- Coded a profile section in HTML & CSS, created a database in MySQL & wrote queries in PHP for CRUD operations

EXTRA-CURRICULUM

- Recipient of Certificate for Academic Excellence & Scholarship for securing 1st position in I.T. department in 1st & 6th semester
- Selected as Head of Events Committee for a technical festival (Techela-2018); liaised with a team of 15 to oversee end-to-end requirements of several rounds of coding competitions with 200+ participants
- Participated in a pre-conference tutorial session on Security and Privacy at the International Conference on Data Science and Analytics (IEEE PuneCon 2018)
- Completed Front-End Web UI Frameworks & Tool course and Six Sigma Yellow Belt specialization on Coursera
- Completed Machine Learning course by Andrew Ng offered by Stanford University on Coursera