Madhura Pawar B.E., Computer Engineering

nadhu221b

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Examination	University	Institute	Year	Grade
Graduation	SPPU	Pune Institute of Computer Technology, Pune	2019	9.72
Intermediate/+2	HSC	HPT Arts & RYK Science College, Nashik	2015	84.15 %
Matriculation	SSC	Nirmala Convent High School, Nashik	2013	92.55~%

ACADEMIC ACHIEVEMENTS

• Overall University Rank 1 in Computer Engg. across 90 colleges of Pune University [2019]

• Awarded Dr.D.Y. Patil, G.H. Raisoni and C.A.V. Bahule Gold Medals and Catono P. [2019] Ramas Prize for securing the highest marks in Computer Engineering.

• Recipient of the **BMC Software Scholarship** for standing **1**st in Computer Engg. Deptt. [2018]

• University Rank 9 and Institute Rank 2 in the 3rd year of Computer Engg. Deptt. [2018]

• University Rank 1 and Institute Rank 1 in the 2nd year of Computer Engg. Deptt. [2017]

o Awarded Late Shri. Gendalal Chordia Award for outstanding performance in Engg. Math [2017]

• Bagged State Scholarship for meritorious performance in Science subject in high school [2014]

Industry Experience

Software Engineer | KlearStack

Pune, India

AI driven OCR and Intelligent Data Extraction Software

June 2021 - July 2022

- Developed back-end module for extracting information from handwritten mandate forms to validate their authenticity. Witnessed a volume of **2000** mandate forms per day being processed seamlessly.
- Implementing heuristic generalized algorithms for **template-less data extraction** from invoices using a cross-functional framework of Python, Django, OpenCV, spaCy and MongoDB.
- Setting up auto-language detection and translation pipeline to provide multi-lingual invoice support.

Technology Analyst | Credit Suisse

Pune, India

Full Stack Developer in the Group Chief Technology Officer

June 2019 - May 2021

- Predictive Modeling of Service Requests
 - Built a web-app predicting the closing date of incoming service requests, facilitating key business decisions to reduce the breach count of requests raised by different stakeholders.
 - Analysing and training a variety of predictive models post data cleaning and preprocessing. Developing REST APIs in **Flask Python** for the web-app.
- o Service & Test Maturity Assessment Application
 - Developed the client-side module using ReactJS, Java Spring Boot and Flask Python & Impala for database querying where a service owner assesses his service based on pre-defined metrics.
 - Enhanced visualisation for users with informative charts and graphs.

Smart Business Continuity Application | BMC Software

Pune, India

Sponsored Project by BMC Software, Inc.

July 2018 - May 2019

- Designed and built an application which initiates **Business Continuity** and **Disaster Recovery** in case of organisational failure due to a natural disaster.
- Furnished **real time status** of dependencies such as assets, employees, services & project impact status
- Reported the findings in a research paper in 'The International Journal of Innovative Research in Science, Engineering and Technology', ISSN: 2319-8753.

Doot - You Seek, We Provide

Pune, India

Participant Project for the WiT (Women In Technology) sponsored IBM's Hackathon

May 2020

- Designed a location-based **connecting platform** for NGOs, donors and the help seekers.
- o Front end in ReactJS, Java Spring Boot as backend & IBM's H2 Database for maintaining data.

ACADEMIC PROJECTS _

Classification of Plant Diseases using Neural Networks

 $Seminar \ \mathcal{E} \ Technical \ Communication$

Convolutional Neural Networks for Image Processing

Jan 2018 - Mar 2018

- o Designed a CNN model which classifies the disease a specific crop is infected given the image of the leaf
- o Achieved an overall accuracy of 98.6% in classifying a leaf into 4 categories: 2 healthy and 2 diseased

Classification of Plant Diseases using Neural Networks

Seminar & Technical Communication

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Realtime Vision Descriptor

Smart India Hackathon

National finalist (top 8) by the Ministry of Social Justice & Empowerment, Govt of India.

March 2019

- Built a system that describes the situation captured by mobile camera lens in natural language and performs primitive tasks over voice commands.
- Used Recurrent Neural Networks, LSTMs, and fine-tuned Google's Inception model on the Flickr30k Dataset using Tensorflow.

Book Locator Application

Skills Development Lab

Android based Application

July 2017 - December 2017

- o Developed a real-time utility app to help a user locate a book without manually searching for it
- The user can navigate through around 3502 library books categorically arranged in 19 subsections

Exam Cell Automation Application

 $Web\ Technology$

 $A\ web$ -application

Dec 2017 - Feb 2018

 \circ Built a web app which automates the manual work of assigning specifc set of roll numbers to a particular block , assigns supervisor dynamically using JavaScript , PHP and MySQL

TECHNICAL SKILLS _

o Programming Languages Python, Java, ReactJS, JavaScript, HTML/CSS, PHP

• Frameworks & Libraries Django, Flask, Spring Boot, OpenCV, Scikit-learn, TensorFlow

o Databases MongoDB, MySQL, Impala, Oracle

Positions of Responsibility

Treasurer & Content Writer, National Service Scheme, PICT

Mar 2018 - Mar 2019

 $Student ext{-}volunteer\ body\ of\ PICT$

- o Managed funding & expenditure of the NSS activities; Raised funds towards Kerala flood rehabilitation
- Started an online campaign 'Deed of the Week' bringing to light the stories of people doing kind acts

Volunteer, National Service Scheme, PICT

Apr 2017 - Mar 2018

- o Ideated and led the **Awareness drive on Malaria & Dengue** in slums near Parvati hill, Pune
- Organised an event thanking police officers and distributed 150 letters for ensuring citizen safety

NOTABLE COURSEWORK

Data Analytics Artificial Intelligence & Robotics Data Mining & Warehousing

Advanced Data Structures Design & Analysis of Algorithms Software Modeling & Design

Neural Networks & Deep Learning[†] Convolutional Neural Networks[†] Sequence Models[†] Structuring ML Projects[†] Software Engg. & Project Mgmt. Web Technology

†: Completed on Coursera, certifications available here

EXTRA CURRICULAR ACTIVITIES

• Secured 3rd position in the **Innovative Idea for Smart Village Development** competition [2018] sponsored by Department of NSS, Pune University and IEEE Bombay Section

• Scripted, directed & acted in a play for the **Diversity & Inclusion** event by Credit Suisse to [2019] spread awareness about generational diversity.

• Secured **Special Mention** in thINK competition, Socio-Art competition by NSS IIT Bombay. [2020]

• Bagged **2**nd prize in The Artistic Impact, Socio-Art competition by NSS IIT Bombay.

[2017]