

EXPERIENCE

DePronto Infotech (Project R&D Intern)

6 months | June 2022 to November 2022

- **Microservices Manager:** Developed a Spring and JSP based project along with multiple sub-modules which are injected within main base module with access management and database services provided through JMS.
- **AMQ JMS Message Handling Microservice:** Developed producer and queue management services, as well as, several utility functions and request format for message consumption.

Future Generali Life Insurance Ltd. (AI/ML Intern)

6 months | January 2021 to June 2021

- **Bingo Chatbot:** Developed an LSTM based Chatbot to assist customers with policy related services and guide them to buying a new policy and capture business lead using HTML, CSS, jQuery, Flask and MSSQL
- **Email Classification Bot:** Trained a BERT model to classify preprocessed emails into given categories and store them in a MSSQL database. Designed an HTML, CSS and jQuery-based email portal to display and flag emails.
- **Form Detection and Classification:** Trained a dataset of 500 images to detect form fields using Yolov5 models and classify them into Aadhar card, Pan card, ITR using MobileNet model.
- **MS-Teams Chatbot:** Created a chatbot to accept approval details from the user and uses this data to create an approval, sending a notification to all parties involved using Power Virtual Agents and Power Automate.

Inmovidu technologies (AI Intern)

3 months | June 2020 to August 2020

- **AI based Sudoku Solver:** Implemented using CNN. Learnt about fundamentals of Python and AI.

EDUCATION:

- **B.Tech Computer Engineering 2017 – 2023, NMIMS, CGPA 3.76/4.0**
- Central Board of **Secondary Education** – St John's High School, Chandigarh, **94.3%**

TECHNICAL SKILLS:

C, C++, Python, Java, C#, Data Structures and Algorithms, HTML, CSS, Bootstrap, Flask, JavaScript, jQuery, ReactJS, Spring, ActiveMQ, NodeJS, JSP, MySQL, MSSQL, Firebase, PostgreSQL, MongoDB, Blockchain, BigchainDB, Ethereum, Deep Learning, NLP, Arduino, Keil Micro Vision, Laser communication, Image processing, PID Controllers

CERTIFICATIONS:

- **Algorithmic Toolbox**, UC San Diego and HSE, July 2020
- **Microsoft Technology Associate certificate in Introduction to python**, Microsoft Corporation, Jul. 2020
- **Machine Learning and Data Analytics Using Python**, E&ICT Academy, IIT Roorkee, Dec. 2019
- **Android Application Development**, NICT Chandigarh, June 2019
- **Mini-Mathematics Training and Talent Search Programme Level 0**, MTTS TRUST, December 2018

ACHIEVEMENTS:

- Runner up (2nd place) in Taqneeq NMIMS MPSTME Cyber Cipher (advanced) Hackathon, 2022
- Runner up (2nd place) in ACM NMIMS Semicolon Coding Competition, 2022
- Regional finalist in AICTE-Chhatra Vishwakarma Awards, 2020
- Second prize in Polarizer Innovative Project Competition, 2019
- First prize in Blind Code Competitive Coding event during Oscillation'18
- Certificate of excellence at World Robot Olympiad 2010, Manila, Philippines in the Junior High School Category
- First team prize and certificate of merit in Junior High Category at Indian Robot Olympiad 2010, North Chapter
- Codechef 3-star, 1751 rating, 2022
- Secretary of Operations, Google Developer Students' Club, NMIMS 2021-2022
- Head of Technical Department, IEEE NMIMS 2020-2021
- Technical Executive, ACM NMIMS 2020-2021

KEY PROJECTS:

- **AR based Mobile Operating System (Unity C#):** AR based operating system capable of detecting places and objects based on a YOLOv5 model and GPS location, providing waypoints and measuring distances for services.
- **EinSwine (Python):** A cross platform application which converts documents to generated handwritten files and vice versa, summarizes video lectures into transcripts, provides query answering
- **DocSvey (Android):** A research app designed for doctors and medical researchers to conduct and create surveys and share their results globally while maintaining their patients' privacy using Blockchain technology.
- **GI-Records (React):** A React and Ethereum based web portal for handling land-based transactions with bargaining, locality-based price calculation and land data visualization and management.
- **Laser Controlled Servo Robotic Arm (Arduino):** Consists of two modules, laser module which undergoes PWM to control a servo robotic arm module remotely. It has record and play feature to repeat actions.
- **E-commerce portal (C++):** A console application using advanced data structures (AVL tree, XOR list) to emulate an offline shopping portal