DARSHIT AMIT PANDYA

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EDUCATION

** expected graduation date*

- **Northwestern University** (Evanston, IL) September 2023 - December 2024*
  Master of Science (M.S.) in Computer Science
  Coursework: Machine Learning, Generative Methods, Interactive Information Visualization
- **Indus University** (India) August 2016 - July 2020
  Bachelor of Technology (B.Tech.) in Computer Engineering **Grade: 9.88/10 (US Scale: 4.0/4.0)**
  Coursework: Data Structures & Algorithms, Programming (C/JAVA/Python), Soft Computing (Neural Networks) **(Dept. Rank - 4)**

EXPERIENCE

- **Engineer, SMG InfoSolutions Pvt. Ltd.** (India) March 2021 - June 2023
  - Performed development and maintenance of the **company's signature product -** AXIS® Gatepass Visitor Management System
  - **Represented software team** while visiting client's office, formulated new features as per their requirements & coordinated with team
  - Designed and implemented new features on the Front-end and Back-end through **Microsoft technologies (.Net/C#), SQL, Javascript**
  - Contributed to **Facial Recognition** feature to recognize visitors via images using **Computer Vision & Neural Networks**
  - **Collaborated** with the **Sales team** to recognize market trends and ensure the relevance of the product's technical functionality
  - **Organized** fortnightly **Pizza suppers** to freely share views, resulting in **improved efficiency,** translating to **2x client satisfaction rate**
- **Assistant System Engineer - Trainee, TCS-Tata Consultancy Services Ltd.** (India) January 2021 - March 2021
  - Analyzed and evaluated client requirements and implemented the determined fixes on the back-end
  - Worked on developing and maintaining web applications using **Python, Java, SQL, Javascript, and UNIX** skillset
  - Resolved & implemented **100%** of client tickets on backend **within** the stipulated timespan, contributing to **high client retention rate**
- **Research Project (Self-study)** August 2020 - December 2020
  - Proposed a novel **robust** system to avoid collision using shared sensor data among vehicles using IVC and sharing predicted warnings
  - Trained **ML models** and achieved **98.59%**, **99.98%**, and **94.18%** accuracies for avoiding Crossroad, Straight-road & Bridge collisions
  - Published the findings in **Springer CCIS** (DOI: https://www.doi.org/10.1007/978-981-16-3653-0_12)
- **Project Trainee, ISRO-Indian Space Research Organisation** (India) January 2020 - May 2020
  - Developed & tested **Machine Learning** models for an Autonomous Rover prototype & proposed **2 novel methods** for Path Planning
  - Achieved **99.78%**, **98.69%** and **99.72%** accuracy for Obstacle Detection, Diversion Decision & Optimal Path Selection
- **Intern, ipLockchain** (Remote) July 2018 - November 2018
  - Developed a web-based interface/portal for storing official credentials securely using Blockchain on the back-end
- **Web Design Intern, Silverwing Technologies Pvt. Ltd.** (India) July 2017 - July 2017
  - Interned under the Web Design team & developed front-end of a Portfolio website using HTML, CSS, JavaScript & Bootstrap

SKILLS

- **Technical:** Programming (Python, C, C++, JAVA, C#, .NET, JavaScript), Databases (SQL, MySQL, MongoDB), CLI (UNIX, Win.)
- **Domain:** Machine Learning, Deep Learning, Artificial Intelligence, Data Analysis, Computer Vision, NLP, IT Consulting
- **Tools:** PyTorch, Tensorflow, Keras, SkLearn, Tableau, Matlab, Hadoop, Visual Studio, Microsoft Office, Google Colab
- **Soft Skills:** Adaptability, Feedback-driven, Collaboration, Communication, Presentation, Group Discussion

PUBLICATIONS

DOIs are hyperlinked

- **Spam Detection using Clustering-Based SVM** **Citations: 7**
  Published by: **ACM**; Conference: **MLMI-2019 (Jakarta, Indonesia)**; DOI: https://www.doi.org/10.1145/3366750.3366754
- **NavIC-based Automated Obstacle Avoidance and Optimal Path Planning using Machine Learning** [Thesis]
  Published by: Indus University (India); DOI: http://dx.doi.org/10.13140/RG.2.2.28264.08961/1
- **Inter-Vehicular Communication for Intelligent Collision Avoidance Using Machine Learning : An Overview**
  Published by: **Springer**; Conference: **ICAICR-2020 (Haryana, India)**; DOI: https://www.doi.org/10.1007/978-981-16-3653-0_12

PRESENTATIONS

- Presented paper titled "Spam Detection using Clustering-Based SVM" at MLMI-2019 held in **Jakarta, Indonesia (in-person)**
- **Delivered talk** on "Human Values & Professional Ethics at Workplace" at **Indus University;** invited by CS Students (virtual)
- Presented paper titled "IVC for Intelligent Collision Avoidance Using ML" at ICAICR-2020 held in Haryana, India (virtual)

PROJECTS

- **WeaROn:** Developed a system to detect position of face-mask on face using mask-embedded sensors & machine learning
- **Smart Accident P.R.O. System:** Developed a smart accident Prevention, Rescue & Occlusion (PRO) system using ML *Link*
- **Number-Plate Recognition System:** Created OCR using Machine Learning to extract car number & auto fine initiation *Link*
- **Med.ai:** Developed a software to detect 5 types of cancer using MRI image/body measurements via Machine Learning

CERTIFICATIONS

- Database Programming with PL/SQL, **ORACLE Academy** (2019) *Link*
- Python Training**,** Spoken Tutorial (**IIT Bombay**) (2019) *Link*
- C Training, Spoken Tutorial (**IIT Bombay**) (2018) *Link*

ACHIEVEMENTS

 # indicates clickable link

- Contributed# to **#vocal4local**# (a **Govt. of India** initiative), which later resulted in the launch of **ONDC**# by the Govt. of India
- Received **50% Tuition Scholarship** from the **Govt. of Gujarat** (India) for **all 4 years** of my Bachelor's education
- **Won** CODE-DECODE TRIATHLON **(hackathon)** hosting **350 students**, organized by Indus University & got **cash prize**
- Received a **special mention** in the Indus **University Registrar's** Convocation speech for **outstanding achievements**