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Aakriti Singla

PYTHON DEVELOPER

MACHINE LEARNING ENGINEER

AI SOFTWARE ENGINEER - DEEP LEARNING

NATURAL LANGUAGE PROCESSING COMPUTER

VISION

EDUCATION

M.Tech CSE – AI/ML and Big data analytics

Mody University of Science and Technology : 2018–2020

Dissertation project for **Self driving cars** using **OpenCV** and **Raspberry Pi 3**

B.Tech Computer science engineering

Manav Rachna International University 2013–2017

Final year project based on **encryption techniques** to protect confidential data

CORE TECHNICAL SKILLS

Python, OOPS

Deep Learning, Machine Learning

Pytorch, OpenCV, Image Processing

Django, FastAPI, Flask

TECHNICAL SKILLS

- Proficient in **Machine learning** and deep learning algorithms, **TensorFlow**
- Familiar with **integration** and **deployment** of **ML models to production**
- **Data scraping** using **Scrapy** tool, **Selenium** for automation testing and scraping
- **MySQL**, **Postgres** and **SQLite** databases
- Familiar with **AWS EC2**, **Git**
- Web applications using **Django**, **Flask**
- **C**, **C++**, **Python**, **Java**, **HTML**, **CSS**, **Bootstrap**, **Javascript**, **Android**
- Frameworks: **SciKit Learn**, **Pandas**, **Numpy**, **Keras**, **OpenCV**, **Apache PySpark**

PROFILE

Skilled Machine learning engineer with technical expertise in python programming and various machine learning and deep learning algorithms with 3 years of total work experience in software development – application design, development, testing and deployment, API design and handling, managing applications with databases and integrating machine learning models in end-to-end mobile and web applications.

EXPERIENCE

My3D Selfie Meta, R&D, Bangalore

March 2022 – Present

Machine Learning Engineer – Deep Learning, Computer Vision

- Virtual Augmented reality – **create 3D human models using MB-Lab** in the **Blender** scene, python scripts inside blender
- **Synthetic data** creation – ML dataset
- Image processing of images dataset – human models and images using **Google-Mediapipe** for landmarks detection
- Computer vision algorithms – **OpenCV**, **Pytorch**, **Google-Mediapipe** and **OpenPose** for Pose detection
- Exposure to **CNN**, **RNN**, **GAN**, **YOLO** etc algorithms for performing different computer vision tasks
- Building, training and deploying Deep learning algorithms, supervised and unsupervised training algorithms from scratch
- Fast API-based web application for uploading ML models
- Performed **data pre-processing and augmentation** using Python for backend functioning

Irish Taylor & Co. – OG Healthcare

NLP developer – AI/ML (Contract)

Dec 2022 – March 2023

- Built an **NLP based Grammar and Spelling checker** for candidate essay text
- **Spacy** and **NLTK library** for dataset and language detection
- Generate a score for the candidate based on the evaluation of the essay text using the NLP model
- **Keywords detection**, in essay text, from database
- Integrate NLP model with Django web app, database and rest API framework

Irish Taylor & Co.

Software Developer – AI / ML

July 2021 – Feb 2022

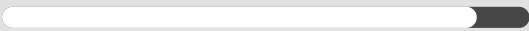
- **AMSI – A Health Assistant Mobile and web app – prototype**
- Built a Sales Lead gen tool development (**LinkedIn sales navigator**)
- LearnHaus – a career enabler website for courses training
- **Django web apps** with ML model API, admin and **social logins**
- Responsible for **creating ML models for backend functioning**, deployment, and integration into AI applications
- Responsible to train Junior staff

COURSES

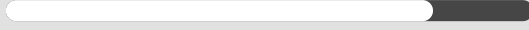
- Machine learning by Stanford University–Coursera
- Introduction to Machine Learning in Production MLOps Specialization by DeepLearning.AI
- Deep learning specialization–Coursera

PROFESSIONAL SKILLS

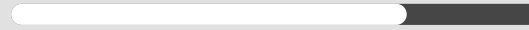
Collaboration and Teamwork



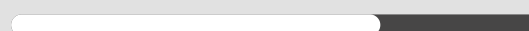
Software Development Skills



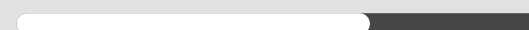
Time Management



Project Management and deadlines



Leadership



PROJECTS

- **SalesGen** – Sales Lead gen navigator tool
- **HAWK AI** – a web app using Django, Sqlite and Data Science for diagnostic and monitoring of hardware devices over the client network – the concept of a data centre
- **Architecture drawings based Django app** for architecture blueprints
- **AIRob**: A lightweight AI module chip programmed with Advanced Deep Learning for Autonomous vehicles using Apache spark – Prototype prepared – simulation-based
- **Personalized Recommendation System** for Scientific publications functioned with AI and Big data analytics

ACHIEVEMENTS

- Achieved **30% scholarship** in MUST exam holding **9th rank** overall.
- Joined as IEEE student membership program

EXTRA CIRRCULAR

- **Writing Novels** – Fictional and read novels of all genres, **Writing quotes**
- **Blog writing life and wellness, and technical content**
- Quiling art

Akus IT Solutions R&D , WFH

Product Software Developer

Jan 2021 – June 2021

- Single-handily developed **Hawk AI software enterprise level**
- Built system on **Django framework, Django Admin and Rest API interface in production**
- Responsible for **both frontend and backend** of the application
- **Netconf** and **Yang** model integration in application engine using python
- Data visualizations using **Plotly, matplotlib**

INTERNSHIPS

LoveOnn Innovation Pvt. Ltd.

AI Engineer Intern

Jun 2020 – Aug 2020

- Work closely with the **back-end team to scale AI algorithms** and develop **Django-based integrated web applications for production**
- Working for **personalized search engine**
- Implementing models with deep learning frameworks like **TensorFlow, PyTorch** and **Keras** to an integrated web application

Profeza Tehnologies India Pvt. Ltd , Fbd

Data Science Intern, Stipened

March 2022 – Present

- Personally handled their **brain engine project – CORTEX**
- Compiled data for competitive analysis using web scraping in python
- Developed a **Recommendation system for biomedical publications**
- Personally took **data extraction using a customized web crawler with scrapy** and data acquisition for the smart sales department.

PUBLICATIONS

- Singla, Aakriti and Sharma, Anand 'Physical Access System Security of IoT Devices using Machine Learning Techniques' (March 20, 2019). In Proceedings of International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM-2019), February 26 – 28, 2019, Amity University Rajasthan, Jaipur, India. Available at SSRN: <https://ssrn.com/abstract=3356785>
- Aakriti Singla, Anand Sharma 'IoT-Crypt-An Intelligent system for securing IoT devices using Artificial intelligence and machine learning' published in Artificial Intelligence and Global Society (Impact and Practices), published by CRC Press, Taylor and Francis Group, Florida, United States Available at <https://www.routledge.com/Artificial-Intelligence-and-Global-Society-Impact-and-Practices/Kumar-Jain-Kumar/p/book/9780367439439>
- Publication: 2019 International Conference on Emerging Trends in Communication, Control and Computing (ICONC3)
- Article Title: A Comparative Approach to Predictive analytics with machine learning for Fraud detection of Real-time Financial data Author(s): Aakriti Singla, Hitesh Jangir Available at <https://ieeexplore.ieee.org/document/9117435>