Ayush Tiwari

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EDUCATION

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY — Noida, UP
B.Tech in Computer Science Engineering (CGPA: 7.8/10) — June 2017 - Present
• **Coursework:** Data Structures and Algorithms, Computer Networks, Operating Systems, Data Science, Blockchain Technology

CITY MONTESSORI SCHOOL — Lucknow, India
XII Standard (Percentage: 93%) — 2017
X Standard (Percentage: 93.6%) — 2015

EXPERIENCE

ARTIFICIAL NEURAL NETWORK INTERN — Noida, UP
Olcademy Ltd. — May 2019 - September 2019
• Implemented an online Pearson's Language Test Simulator using **Natural Language Processing**
• Programmed a **Domain Recommendation System** for new users based on their interest and social profiles
• Headed a team of 8-10 Interns to develop, integrate and deploy ML models and thus promoted to the position of Analyst
• Administered Server Deployment and guided App Integration

MACHINE LEARNING COORDINATOR — JIIT-128, Noida
Developers Student Clubs by Google — July 2019 - Present
• Organised and planned Google's Events including **Google Cloud Study Jam** for Google Cloud Platform Training.
• Conducted and Headed Google's Star Machine Learning event **ExploreML**
• Taught at various Machine Learning Lectures and Seminars in college on latest Machine Learning techniques.
• Mentored and trained hundreds of students in Machine Learning and Deep Learning all the while enforcing efficiency and team spirit within the community

PUBLICATIONS

Dr. Himani Bansal, **Ayush Tiwari**, Satyam Mittal, Lalit Bhagat (2020, June). **Image Correction and Identification of Ishihara Test Images for Color-Blind Individual**. In Proceedings of Second International Conference on Computing, Communications, and Cyber-Security (**IC4S 2020**): [**Paper**]

PROJECTS

BlazeBit [Code] — May 2019 - June 2019
• Implemented a novel Social Webapp which performs Model Inference and Predictions on Deep Learning Models in **Tensorflow** by allowing users to upload their models on the website for anyone to test and integrate.
• Applied containerized Technologies like **Docker** to create individual containers for each prediction allowing infinite scalability
• Frameworks : **Flask, Docker, Tensorflow, SQLite Database**

X-Ray Net [Code] — Aug 2019 - Nov 2019
• Implemented a Webapp to classify the types of Lung Diseases from patient's X-Ray Scans using **DenseNet-121**
• Any User [patient/doctor] can sign up and upload X-Ray Scans to get quick and accurate predictions
• Frameworks : **Flask, Transfer Learning, PyTorch, SQLite Database**

Colorify [Code] — Feb 2020 - May 2020
• Developed and designed a **Kotlin App** to allow Color Blind users to Color Correct Images taken from their camera or gallery using **Image processing** and applied Machine Learning for proof of concept
• Programmed a **Flask API** and a **Retrofit2** Pipeline to perform predictions on an already deployed App on **Heroku**
• Frameworks : **Kotlin, Flask API, OpenCV, Retrofit2, Keras**

SKILLS

• **Programming:** Python, C++, C, SQL, LaTex, HTML, CSS, JavaScript
• **Frameworks & Technologies:** Flask, TensorFlow, Scikit-Learn, Pandas, GIT, TravisCI, Docker, Kubernetes, Amazon Web Services

CERTIFICATES

• Machine Learning : Hands on Python R for Data Science [**Cert.**] — June 2020
• Docker and Kubernetes Udemy Course [**Cert.**] — July 2019