Surya Shukla
Software Developer

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Education

BTech, Electrical Engineering: Indian Institute of Technology Goa	CGPA: 8.34/10	2019 - 2023
Class 12, CBSE: Delhi Public School, Kalyanpur, Kanpur	Aggregate: 95%	2018-2019

Experience

Software Developer at Paytm: *[June 2023-Present]*
- Working in Paytm m'loyal team which helps brands to run campaigns, manage loyalty points, extend offers to specific customers, etc.
- Currently working on the frontend of the website. Gained experience in **Javascript, React, Jquery**, and **Typescript,** etc.
- Launched a mini app 'Brand Loyalty Points' which works on H5 page and integrated it into Paytm app's passbook section.

SDE Intern at Ipetronik: *[June 2022-Nov 2022]*
- Worked on windows application to visualize the data collected during R&D of Automobiles to increase their safety and efficiency.
- Enhanced and developed visual elements like **heat flow matrix** and integrated them into the IPEmotion software.
- Used **C#** to create **Winforms** and **Arction** library to create the data modelling elements like histograms, heat maps and classification tables.

Android Development Intern at Microfinance.ai: *[April 2022-June 2022]*
- Implemented new fragments related to filling user information for loans using **MVM** architecture through material design components.
- Gained hands-on experience in writing some basic unit tests for android apps and also designed the UI for the loan information fragment.
- Learned about dependency injection using **Hilt**, **single activity architecture, navigation component, MVVM and MVM architecture, etc.**

ML Internship at Coneio Exim Private Limited: *[Oct 2021- March 2022]*
- Worked on making Machine Learning models to classify the products for export into their respective HSNs and got **95%** of accuracy.
- Used NLP models like **Bert** to create word embeddings and worked on improving the model accuracy by tuning the hyper-parameters.
- Implemented Neural Network, **PCA**, data augmentation techniques, **Word2Vec**, **K-means clustering** and **fuzzy ratio** for supervised learning.

Tourist Policing App for GOA Police: *[June 2022 – Jan 2022]*
[Supervisor: Prof. Sharad Sinha]
- Created an android app using **Kotlin** for Goa Police to be used by tourists for help, information, paying challans and various other use cases.
- Implemented an emergency feature that on use calls the police directly, and sends location, and live audio recordings to the police for help.
- Used Firebase for **OTP authentication, Maps API, etc.** Integrated **payment gateway** in the app for defaulters to pay and track challans.

Projects

Stray Welfare App [LINK]: *[June 2022 – Feb 2023]*
[Supervisor: Prof. Neha Karanjkar and Prof. Clint P George]
- Created an android app using **Kotlin** to deploy and manage database of stray animals where volunteers can report emergencies, ask for donations, and help from other volunteers. Stray animals can be marked as vaccinated or spayed by the volunteers on the app.
- Each animal and its details would be displayed on the **map** for neighbouring volunteers to easily extend their help.
- Used single activity architecture, **MVVM architecture** and **Google Maps API** for maps integration, implemented chat functionality, etc.

Quickie News App [GITHUB]: *[Jan 2022 – Feb 2022]*
- Made a news app using **Kotlin** which fetches the news from **news API**, summarises it using a NLP model, displays it in the app on stack of cards.
- Used the **test rank algorithm** using **NLTK** to rank the sentences of the news and displayed the top ranked sentences on the app.
- Added more functionality like news search, bookmarking and topic specific news.

Psychometric Test for Career Prediction [GITHUB]: *[Aug 2021- March 2022]*
- Designed an **Adaptive Learning** model which conducts **psychometric test** for students based on their skillset and personality to **predict their career.**
- Predicted the questions to be asked to a student based on the questions he has answered in the past during the test.
- Clustered the results of the test using **K-means algorithm** to predict possible career opportunities.
- Gained experience in Machine Learning algorithms, **Scipy, Scikit-learn, Matplotlib,** and **Seaborn** libraries.

Skills

Programming Skills and Utilities.	:	Java, Python, Kotlin, MATLAB, C++, HTML, CSS, C#, Javascript, JQuery, Typescript
Frameworks	:	Node Js, Express, React, TensorFlow, PyTorch, RASA, Scikit-Learn, SciPy, NumPy, Pandas, MongoDB, Arction
Relevant Coursework	:	Probability and Random Processes, CourseEra Specialisation: Machine Learning, Deep Learning Specialisation by DeepLearning.AI, Machine Learning and Pattern Recognition, Courses on Android Development by Google
Financial Skills/Business Skills	:	Course on Econometric Data Science, Economics
Miscellaneous	:	Git, Android Studio, Linux, Gradle, Terminal, Bash

Positions of Responsibilities

Film and Media Secretary	:	Head of Film and Media Clubs (Photography and Filmmaking Club, Design Club)	*(2020-2021)*
Public Relations Head	:	Headed a 20 member team for PR for Technical Fest of IIT GOA, Cepheus and Cultural Fest of IIT GOA, CultRang.	*(2020-2021)*
Core Member	:	Core Member of Entrepreneurship Cell, Music Club, Drama Club, Literary Club, etc	*(2019-2021)*

Achievements

- 4*Competitive Coder on CodeChef and Pupil at CodeForces, Solved more than 500 problems on LeetCode. *(2021-present)*
- Won 2nd prize in ChitChat with AI ChatBot competition in Cepheus, Technical Fest in IIT GOA *(2021)*