Please make a copy of this document and include this in your GitHub repository for your submission, using the tag #AndroidDevChallenge

Tell us what your idea is.

Instaresume: Resume building and analyzing app that uses machine learning to rank the user's resume based on the job requirements and provide feedback to improve the resume just like Grammarly is used to improve writing.

One of the most important parts of job application for freshers/professionals that is often neglected is Resume. Research shows that 90% of all CVs/ Resumes are checked for less than 2 minutes by the employers. This means that only the most important keywords and points of interest are looked upon and rest are ignored. This pain point can be removed using ML. As a university student, I am experiencing this and found no solution. So I decided to build this myself.

Two most important feature of the app is:

1.Resume Building

Prebuilt templates are provided in the app. Open Beta of the app having this feature is already rolled out in the play store and is in the review process.

2.Resume Scoring

On Device ML combined with NLP will be used for analyzing the resume. A deep analyzed summary and feedback along with scores will be provided to the user. The success rate of the model largely depends on the data available.According to the profile, various internships/jobs will be suggested to the user. With the help of TensorFlow lite, the model will be directly imported in the app and thus reducing the latency and internet dependency. With this feature, users will have an option to stand out from the crowd.

Tell us how you plan on bringing it to life.

Open Public Beta of the app is already published in the play store containing the resume building feature with limited templates.

Any potential sample code.
The link to the GitHub repository of the app is provided below.
https://github.com/captain82/Instaresumes

A list of ways you could use Google's help.

1. This project requires a lot of data to accurately analyze the resume. Since resumes come in various designs and patterns and there is no fixed design pattern that everyone should follow. It becomes very difficult to extract data that is structured. One way Google can help in this project is with data collection and categorization which will help in training the model.
2. Since this is a project which will directly affect students and professionals I will definitely need some guidance and mentorship for improving the app and adding features that are most needed. I am a student and I am quite aware that my approach for solving the problems is not always right. Google's help here would be highly appreciated for solving problems with the right approach.
3. The UI/UX is also very important for a great user experience especially for the target audience of this app. Help would be greatly appreciated in the correct design pattern for user retention and acquiring new users.
4. One other way Google can help me in this project is spreading this app in some universities/colleges where students will use this app we can get feedback and data from it to further improve the app.
5. Help in restructuring the deadline if required so that the app is ready before May 1, 2020.

Timeline on how you plan on bringing it to life by May 1,2020.

The development journey is as follows:-

December 2019

- Create 4-5 templates and push an update.

January 2020

- 1st week

Convert the pdf resume to HTML and reverse engineer it to get the HTML code from it.

- 2nd week-4th week
  Segmenting process of the resume according to the font to get the structured data.

February 2020
Resume will be converted to weighted values and these values will be compared with the requirement.

March 2020
Building and training the Tensorflow lite model. The model will be imported in the Instaresume app and will be actively tested for latency and speed and accuracy and further improvements will be made according to feedback.

April 2020-May 1,2020
Testing of the app and bug fixes and finally release.

Tell us about you.

A great idea is just one part of the equation; we also want to learn a bit more about you. Share with us some of your other projects so we can get an idea of how we can assist you with your project.

Hi, I am Ankit Kumar currently in my final year B.Tech from Netaji Subhash Engineering College, Kolkata. I have been working on Android since my second year. I have a full-time internship experience of 5 months. I love building exciting projects. Some of my projects and their link are below:-

- **Zomato**:-This Android app uses Zomato API to get restaurants, recipes, ratings, etc around the user's location. Implemented MVVM principle using LiveData, ViewModel, DataBinding and Android architecture components.Link:-https://github.com/captain82/Zomato

- **Parking Spaces**:-This app detects the current position of User and its address which allows the user to add a Parking Space. The idea is to crowdSource Parking spaces to

remove the problem of spaces in crowded cities. Link:- https://github.com/captain82/ParkingSpaces

- **Picky**:-This app is to demonstrate expandable Grid Recyclerview. Expandable Linear Recycler View is used by most apps but very few apps use an expandable Grid Recycler view. There are no tutorials available for this because the implementation is rather difficult than others. The app uses:-
    - MVVM Architecture
    - Android architecture components
    - Retrofit
    - Picasso(for image loading,caching,resolution change)
    - Facebook Shimmer library for a beautiful animation.
    - Constraint Layout
    - Recycler view
    - Material Design.

  Link:- https://github.com/captain82/Picky

- **FaceAPI**:-This app uses Face API provided by Microsoft Cognitive Services to detect human faces in a picture.Link:-https://github.com/captain82/FaceAPI

Next steps.

- Be sure to include this cover letter in your GitHub repository
- Your GitHub repository should be tagged #AndroidDevChallenge
- Don't forget to include other items in your GitHub repository to help us evaluate your submission; you can include prior projects you've worked on, sample code you've already built for this project, or anything else you think could be helpful in evaluating your concept and your ability to build it
- **The final step is to fill out this form to officially submit your proposal.**