Abhilash Rath

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Github

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EDUCATION

- **Rajiv Gandhi Institute of Petroleum Technology** — Amethi, India
  Bachelor of Technology, Chemical Engineering; CPI: 7.27 — *Aug. 2017 – June 2021*

- **Atomic Energy Central School** — Mumbai, India
  Intermediate: 88.6% & Matriculation: 90.6% — *Aug. 2013 – March 2017*

EXPERIENCE

- **Sensen.ai & Sensen Networks** — Hyderabad, India
  Software Engineer - R & D — *June 2021 - Present*
  - Leading a team of 4 for better sprint management and mentorship for increased productivity in R & D and product development.
  - Implemented the alerting framework of Sensen as an in-app feature, in an optimized way using caching strategies, reducing the alerting time by 900 %.
  - Revamped the detection engine, to increase detections fps by 400 % using hardware acceleration techniques.
  - Re-Architected the Camera2Service module of Gemineye following MVVM architectural practices.
  - Integrated facemask detections and tracking, IR Camera features, for increasing product marketability.
  - Have been awarded top performer and leadership praises consistently since joining.

  Android Developer Intern — *June 2020 - June 2021*
  - Worked on 50+ tickets involving commercial features and bug fixes, with the mindset of achieving the impossible.
  - Developed an auto-exposure algorithm post extensive R&D, that increased the accuracy of the detections by 13 %.
  - Developed the networking module for achieving 24*7 connectivity between multiple android devices that is almost 99% stable.
  - Implemented a recognitions grouping algorithm for getting accurate detections, that increased sales of handheld systems 5 times.
  - **Miscellaneous**: Have been part of the core development team, responsible for code reviews, releases and recruitment in the company.

- **Vizitor** — Chandigarh, India
  Mobile Developer (Flutter) — *May 2020 - July 2020*
  - **Vizitor Pass**: Developed a newer version of the hybrid Vizitor Pass application with completely new UI/UX and a better architectural approach, from scratch, using Flutter SDK and Dart.
    * **Features**: Revamped UI and architecture of existing features and added new features like attendance and deliveries.
    * **Architecture**: Used kiwi as IOC Container for dependency injection, dio as http client and retrofit for type conversion for handling api calls and achieve code consistency and stability. Followed MVVM and Bloc architectural practices.

- **BindSocial** — Mumbai, India
  Android Developer Intern — *May 2019 - July 2019*
  - **R & D Projects**: Youtube data aggregation and exploratory data analysis on dataset of size ˜7 million using python and MongoDB. Wrote a script in python to generate user recommentaions using item based collaborative filtering techniques.Built a webscraping tool in python.
  - **BindSocial**: Implemented various features like notification service, user profile dashboard, in-app chat service,user recommendation and match logic etc.

PROJECTS

- **Image Sentiment Retriever**: Android app for retrieving the text sentiments in an Image in audio and visual format.
- **Weather App**: Hybrid application showing weather analytics for next week in an engaging UI using Flutter.
- **Winter School App**: Android Application describing the events and proceedings of Winter School 2019, RGIPT.

PROGRAMMING SKILLS

- **Languages:**Java, Kotlin, Python, Dart, PHP, C, SQL   **Technologies**: Android, Flutter, MongoDB, OpenCV, Bazel