Deepesh Kurmi

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</> LeetCode 🍴 CodeChef ≡ CodeForces

EDUCATION

IIIT Nagpur   **2018 – 2022**
Bachelor of Technology in Computer Science and Engineering   *Nagpur, Maharashtra*

EXPERIENCE

GeeksforGeeks   **June 2022 – Present**
Software Development Engineer 2   *Noida, Uttar pradesh*

- Built a **micro-service to periodically validate URLs** present in various features such as headers, footers, left bars, etc. Implemented functionality to alert administrators about any invalid URLs detected.
- Identified inefficiencies in **BigQuery** logs and optimized SQL queries, resulting in a **35-45% reduction in the cost** of BigQuery operations.
- Achieved a **54% reduction in number of RDS Instances**, decreasing from 13 to 6, through comprehensive analysis of slow queries, CDN usage, and audit logs on AWS CloudWatch. This initiative led to a **50% reduction in costs**.
- Integrated Redis caching across 5 projects, resulting **reduction in average response times and decrease in database load**.
- Created and managed a custom **URL shortener**, reducing URLs length by 60-90% and increasing user engagement. **Achieved 95-99% success in generating unique short URLs** and improved click-through analysis accuracy.
- Constructed a **user preference system, increasing notification relevance by 50%** and enhancing user engagement. Enabled personalized notifications (Email, WhatsApp, Push) based on individual interests, improving overall user satisfaction and interaction.
- Created a **micro-service to optimize email delivery**, enabling batch sending and implementing features such as user prioritization and prevention of duplicate sends, resulting in **code reduction by 5-10%** in other projects. Supported backend email delivery via AWS SQS and Celery.
- Led migration of email themes and dashboard to Django, **achieving a remarkable 300% performance boost**. Introduced **A/B testing** feature, increasing email engagement by 15-25% through automatic selection of the most engaging variant.
- Engineered notification **scheduling functionality**. Notifications can be scheduled for specific dates and can recur (daily, weekly, monthly, yearly) and are sent via AWS SQS and Celery. Reduced time & effort by 70%.
- Tracked for total URL click counts, unique URL clicks, and users who clicked URLs in emails for each email campaign to analyze user interests. Presented these analytics as graphs on a dashboard with date range filtering.

Peakmind.in   **July 2021 – January 2022**
Software Development Engineer Intern   *Bangalore, Karnataka*

- Crafted upcoming events, home & landing page, enhancing user interaction by 40%.
- Engineered backend **onboarding functionality**, **handling 100+ new user entries daily** through CSV files.
- Listed learning-programs, boosting user interaction by 50% with pagination and search.
- Designed **social media sharing feature**, resulting in a 30% increase in program visibility.
- Developed internal dashboard for web-push notifications, streamlining processes and improving efficiency.

PROJECTS

A comparative study of OCR engines for medical report digitization | *Python, OCR Engines* | *Link*   **June 2021 - May 2022**

- Analyzed impact of **6 image preprocessing techniques on 3 OCR** engines accuracy.
- Created Python scripts for image preprocessing and OCR engine integration.
- Evaluated OCR performance with different preprocessing-OCR engine combinations.
- Identified optimal configurations; **Tesseract-OCR demonstrated 87% and 89% faster speeds compared to Easy-OCR and docTR-OCR**, respectively.
- **Noted 2.88% average accuracy improvement** in text extraction post-analysis.

TECHNICAL SKILLS

Proficiency: Python, Django, Java, C++, C, JS, HTML/CSS, PHP, SQL, MySQL, PostgreSQL, DynamoDB, Redis, AWS S3, SES, SNS, SQS, Celery, Lambda Function, ORM, System Design, Distributed System, RESTful service, Microservice

Familiarity: Spring Boot, ReactJS, NodeJS, MongoDB, Google Cloud Platform, AWS, Docker, GIT, Linux

ACHIEVEMENTS

- **IEEE Explorer Research Paper Publication:** An Accurate Prediction of MPG using Linear Regression Model ML. Link
- **LeetCode Guardian (Rating: 2180+):** Received LeetCode Guardian title for excellence. Profile
- **IDFC FIRST Bank Hack-a-thon:** Secured **8th** rank out of 30K+ participants. Link