

Akash Kokare

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SKILLS

- **Frontend:** React.js, RTK Query, Redux, React Router, HTML5, CSS3, JavaScript (ES6+), TypeScript, Material-UI, Bootstrap, TailwindCSS, jQuery
- **Backend:** Node.js, Express.js, REST APIs, Microservices, GraphQL
- **Database:** MySQL, MongoDB, Elasticsearch, Firebase
- **Cloud/DevOps:** AWS (EC2, S3, Lambda, RDS), Docker, Git, CI/CD
- **Languages:** JavaScript, TypeScript, Python, C/C++, Java, XSLT
- **Tools:** Agile Methodologies, Scrum, Jira, GitHub
- **ML:** TensorFlow, Data Preprocessing, CNN

WORK EXPERIENCE

- **ResearchWire** Navi Mumbai, Maharashtra
Software Engineer July 2022 - Present
 - Led full-stack development of the **ResearchWire Analytics Platform**, incorporating dark mode, **FusionCharts** for interactive graphs, advanced search filters, and a file download dashboard, boosting user retention by **15%**.
 - Optimized Elasticsearch indexing for **25 million** documents, accelerating implementation speed by **10x**.
 - Developed **rwire-converter** for XML to JSON patent data conversion, enhancing search efficiency. Upgraded to Node.js for handling large strings, achieving a **5x** speed improvement.
 - Created and deployed **rwire-docket**, a MERN stack patent docketing platform with RTK Query, MySQL database, and REST APIs, leveraging AWS Lambda for real-time processing.
- **Regex Software Services** Remote
Machine Learning Intern June 2021 - August 2021
 - Built and optimized a garbage classification model using CNNs with the **Inception V3** pretrained model, handling data preprocessing and model training to achieve successful deployment.

PROJECTS

- **Feastflow Food Delivery App:** Developed a comprehensive food delivery platform using the MERN stack, featuring user authentication, dynamic menu management, real-time order tracking, and secure Stripe integration for payments. Implemented an admin panel for managing food items, tracking orders, and viewing order history. Enhanced user experience by adding quality-checked street food stalls, expanding the range of options.
- **Question Pairing Platform:** Developed a question similarity prediction tool using React.js, Material-UI, and a machine learning model trained on the Quora Question Pairs dataset. Preprocessing involved data cleaning (removing punctuation, stemming, lemmatization, etc.) and feature engineering (cosine similarity, polarity, question length) using Python's NLTK library. Implemented efficient algorithms for real-time processing and rendering. Trained models using LightGBM, RandomForest, and XGBoost, with **XGBoost** achieving the **best performance (Log Loss: 0.428)**. Managed data with MongoDB and designed APIs following REST principles to ensure quick, accurate response times.
- **Penetration Testing Framework GUI:** Led the development of a GUI-based cybersecurity application providing services like password management, encryption, cracking, and hash verification. Used Python and Tkinter for a secure, user-friendly interface, enabling comprehensive security testing.

EDUCATION

- **Atharva College of Engineering** Mumbai, Maharashtra
Bachelor of Engineering in Information Technology July 2018 - July 2022

CERTIFICATIONS

- **AWS Certified Cloud Practitioner (in progress):**
- **ReactJS Course by Namastedev:**