

# Akash Kokare

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## SUMMARY

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Dynamic and results-oriented Full Stack Developer with a strong foundation in both front-end and back-end technologies, including React.js, Node.js, and machine learning. Proven ability to build scalable and efficient solutions and collaborate effectively with cross-functional teams to meet business objectives. Passionate about delivering high-quality software and continuously learning new technologies to drive innovation.

## SKILLS

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- **Frontend:** React.js, Redux, HTML5, CSS3, JavaScript (ES6+), TypeScript, Material-UI, Bootstrap, TailwindCSS, Responsive Design, UI/UX Design
- **Backend:** Node.js, Express.js, REST APIs, Microservices, GraphQL, JWT Authentication, WebSockets
- **Database:** MySQL, MongoDB, Elasticsearch, Firebase, SQL, NoSQL
- **Cloud/DevOps:** AWS (EC2, S3, Lambda, RDS), Docker, Git, CI/CD, Serverless Architecture
- **Languages:** JavaScript, TypeScript, Python, C/C++, Java, XSLT
- **Tools:** Agile Methodologies, Scrum, Jira, GitHub, Postman, Visual Studio Code
- **Machine Learning:** TensorFlow, Data Preprocessing, CNN, Model Deployment

## WORK EXPERIENCE

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- **Researchwire Knowledge Solutions** Navi Mumbai, Maharashtra  
*Software Engineer* July 2022 - Present
  - **ResearchWire Analytics Platform:** Developed a scalable platform using React, Symfony, and MySQL to manage a global database of published patents. Integrated Elasticsearch for querying millions of documents, improving search efficiency and result accuracy by 30
  - **Rwire Data Converter (XML to JSON):** Addressed performance bottlenecks in XML to JSON conversion for large patent documents using XSLT and Java (Spring Boot). Reduced processing time for lengthy descriptions by 50
  - **Rwire-Converter (Node.js):** Revamped the data conversion pipeline with a Node.js implementation, achieving a 10x increase in conversion speed for patent data. Enhanced scalability and streamlined integration with Elasticsearch for improved search capabilities.
  - **Rwire-Docket (IDS Docketing Platform):** Designed and implemented a MERN stack application to handle Information Disclosure Statement (IDS) submissions. Integrated RTK Query for state management and Spring Boot for automated PDF generation. Real-time data retrieval enabled from USPTO and Espace APIs, optimizing legal compliance workflows.
- **Regex Software Services** Remote  
*Machine Learning Intern* June 2021 - August 2021

- **CNN Garbage Classification Model:** Developed and fine-tuned a Convolutional Neural Network (CNN) garbage classification model using Inception V3, achieving 90% classification accuracy. Preprocessed and augmented data to improve the model's robustness in classifying different types of waste.
- **Data Pipeline Optimization:** Designed and optimized the data pipeline for training the CNN model, reducing data processing time by 30%. Integrated cloud-based solutions to store and retrieve large datasets for model training, ensuring scalability and efficiency in the pipeline.

## PROJECTS

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- **Feastflow Food Delivery App:** Built a food delivery platform using the MERN stack with JWT-based user authentication, dynamic menu management, and real-time order tracking through WebSockets. Integrated Stripe for secure payment processing and created an admin panel for order management, enhancing user experience and increasing sales conversion.
- **Question Pairing Platform:** Developed a question similarity prediction tool using React.js for the front-end and XGBoost for machine learning. Achieved a log loss of 0.428 by applying data preprocessing with Pandas and NumPy. Implemented RESTful APIs and MongoDB for efficient data handling and storage.
- **Penetration Testing Framework GUI:** Created a GUI-based cybersecurity application using Python and Tkinter, offering password management, encryption, cracking, and hash verification services. Integrated security protocols and user authentication for a secure and intuitive experience.

## EDUCATION

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

## CERTIFICATIONS

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- **AWS Certified Cloud Practitioner (in progress):**
- **Ultimate AWS Certified Solutions Architect Associate:**
- **ReactJS Course by Namastodev:**
- **Master Java Web Services and REST API with Spring Boot:**
- **Machine Learning A-Z: AI, Python, and R + ChatGPT:**