Akhilesh Jichkar

CS Grad at SJSU · AI Enthusiast · Software Developer

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Education

San Jose State University | San Jose, CA *Exp. May 2019*
Master of Science in Computer Science

Shri Ramdeobaba College of Engineering and Management | Nagpur, India *May 2017*
Bachelor of Engineering in Computer Science and Engineering

Skills

- **Languages**: Java, Python, C++, C#, SQL, R, LaTeX, UML
- **Web**: JavaScript, Angular, React, ASP.NET, NodeJS, PHP, CSS
- **Graphics**: OpenFrameworks, WebGL, Photoshop
- **Data Analytics**: Tableau, MicroStrategy, Weka, Orange
- **Tools**: TensorFlow, Keras, Hadoop, Spark, Android, iOS
- **Soft Skills**: Team leader, Initiator, Prolific, Disciplined

Work Experience

InfoCepts | Nagpur, India *Jan. 2017 - Apr. 2017*
Intern - BI Development Module (Tableau)

- Implemented a dashboard to summarize the World Development Report-2014 and to give insights into the development of 133 countries across factors such as GDP, Sex Ratio, Carbon Emission and Natural Disasters.
- Calculated information gain and chi squared correlation to find the most relevant attributes from over 200 attributes.
- Performed ETL preprocessing in Excel, and executed complex SQL queries in MS-SQL to create a dashboard in Tableau.

InfoCepts | Nagpur, India *May 2016 - Aug. 2016*
Intern - MicroStrategy

- Implemented a dashboard to derive insights from the crime statistics in the USA between the years 2012 to 2014.
- Led a team of five effectively to create Logical and Physical data models, converted the raw data in 3NF format, and created dashboards from the generated reports.
- Set up the MicroStrategy Server using Apache Tomcat to establish the connection between MS-SQL and MicroStrategy.

ADCC Infocad | Nagpur, India *Jun. 2015*
Intern - Android Developer

- Implemented a Library Management System consisting of a database server and an Android application from scratch.
- Developed an autonomous system which scanned QR codes for faster checkout of library books.
- Effectively built a system using RestAPI to communicate between the Android application and MS-SQL database using JSON.

Academic Projects

Lyrvana- Music Search Application *Jan. 2018 - May. 2018*
Tools: Elasticsearch, JavaScript, Python, PHP, CURL

- Created a lyrics based music search engine using Elasticsearch, enabling users to find the lyrics for their favorite songs.
- Performed web-scraping, data ingestion using elasticsearch and beautifulsoap libraries to create indices in the Elasticsearch cluster.
- Developed the frontend using JavaScript and CURL to query the Elasticsearch cluster, significantly reducing query response time.

Intelligent Mobility Aid for the Visually Impaired *Aug. 2017 - Dec. 2017*
Tools: TensorFlow, Android, Python, Docker

- Implemented an Android application to help visually impaired users navigate the streets by using an Android smart phone.
- Trained the application to detect common obstacles in real time with 92.15% accuracy and alert the user via auditory feedback.

Health Insurance Premium Calculator *Aug. 2016 - Dec. 2016*
Tools: R, JavaScript, PHP, MySQL

- Implemented a health risk prediction agent, which assesses the user's health and to calculate the user's health insurance premium.
- Developed a server which periodically takes input from a fitness band to monitor user activities and generate a model using logistic regression in R and display the result in a website designed using JavaScript, PHP and MySQL.

SYMACO- Content Management System *Aug. 2015 - May 2016*
Tools: ASP.NET MVC, C#, MS-SQL, JavaScript, OAuth, CSS3

- Implemented a Content Management System which allows users to create their own website and/or blog site.
- Effectively led a team of five to develop a WYSIWIG functionality, while researching and implementing the best methods for CMS.
- Designed numerous website template plugins for the users to choose to publish content on their website/blog site.

Honors and Awards

- **Best Interviewee**, MicroStrategy Internship Program
- **Branch Coordinator**, Student Mentor Forum
- **Technical Coordinator**, Polaris 2016
- **Best Section / Class Representative**, SRCOEM

Organizations

Spartan Hyperloop · SJSU Data Science Club · Spartan Analytics · Indian Student Organization SJSU · Photography Guild