Neha Garg

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Summary

- Software Engineer specializing in front end development.
- More than 2.9 years of experience in web apps development with a good knowledge on HTML, CSS, Vanilla JS.
- Some common problems I have worked on are:
    - Designed and developed React applications from using Webpack, JS and React functional Components (React v16.8).
    - Designed and developed Vanilla JS applications using OOJS.
    - Improved React rendering performance using React dev tools and common optimization techniques.
    - Worked on educational domain product and contributed on admin module.

Skill Highlights

- **Primary:**
  React JS (v 16.8+), Redux State Management, JavaScript, HTML5, Jest, webpack, Highcharts, and CSS3.
- **Other:**
  Basics of Git, Visual Studio Code, Data Structures, Basics of AWS, Basics of Operating System, Basics of Material UI.

Experience and Projects

TezLaxmi Software Solutions, Gwalior (*Feb 2020 to Dec 2022)*
Software Engineer

❖ *Online Education Admin Portal*
An admin portal for customizing features on client app and a single dashboard to see charts about different stats on app.

- Designed and developed new features, fixed existing issues, analyzed and discussed scope of improvement.
- Carried out quality assurance tests to discover errors and optimized usability.
- Tech stack used: React (Hooks), Webpack, ES6, CSS3, SCSS, Material UI, JavaScript, HTML, HighCharts etc.

ITM University, Gwalior (*Jan 2017 to Feb 2020)*
Assistant Professor

- **Age and Gender Classification and Prediction Based on CNN and VGG-16 MODEL**
  Computerized Age and gender classification has become pertinent because of its increasing numbers of applications, peculiarly increasing popularity of social platforms or social media. Analysis of face in images is still a challenge for automatic age and gender due to its high variations in dimensions, deformation and resolution. This work proposes its implementation in the field of age and gender detection. The aim of this work is to design a model based on deep learning techniques to recognize age and gender using facial images. It takes real-time images or captured images as input for classification of age and gender.
- **A New Text Mining Method Based on Multi Objective Genetic and K-Means Clustering Algorithm (M.Tech Dissertation Title)**
  In Today's world, the amount of stored data has been enormously increasing day by day which is generally in the unstructured form and cannot be used for any processing to extract the useful information. Clustering is one of the Text Mining technique for organizing such massive amount of data into a set of disjoint classes called clusters.

It will uses the noble and heuristic techniques as an improvement over the existing method for enhancing the performance of document clustering algorithm.

Publications

- Garg, N, Shrivastava, S, Gugnani, P (2020) "**Deep Learning Models for Leaf Disease Detection for Crops in Agriculture Field : A Survey**", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 6, Issue 3, May 2020.
- Garg, N, Shrivastava, S, Gugnani, P (2019) "**Comparison between High utility mining of rare item sets Algorithms over Transactional Database"**, International Journal of Research in Advent Technology, Volume 7, Issue 5, May 2019.
- Garg N., Gupta R.K. (2018) **"Performance Evaluation of New Text Mining Method Based on GA and KMeans Clustering Algorithm"**. In: Choudhary R., Mandal J., Bhattacharyya D. (eds) Advanced Computing and Communication Technologies. Advances in Intelligent Systems and Computing, vol 562. Springer, Singapore.
- Garg, N, Gupta, R.K. (2018) "**Exploration of Various Clustering Algorithms for Text Mining**", International Journal of Education and Management Engineering(IJEME), Vol.8, No.4.
- Garg, N., Gupta, R.K., **"Document Clustering Analysis Based on Hybrid Clustering Algorithm"**, International Journal of Advanced Research in Computer and Communication Engineering, Volume 5, Issue 4, April 2016.
- Garg, N., Gupta, R.K., **"Clustering Techniques for Text Mining: A Review"**, International Journal of Engineering Research, Volume 5, Issue 4, April 2016.
- Garg, N., Gupta, R.K., **"Text Document Clustering Approaches: A Comprehensive Review"**, National Conference On Advances in Information and Communication Technology, February 2016. (Presented)

Education

M.Tech(C.S.) (R.G.P.V.)	MITS, Gwalior	87.3%	2016
B.E(C.S.) (R.G.P.V.)	S.R.C.E.M, Gwalior	76.3%	2012
12th (M.P.)	Gwalior	77.11%	2008
10th (M.P.)	Gwalior	82%	2006

Awards and Achievements

- Won Best Mentor Award of B.Tech CS 2016-2020 batch on Teacher's Day, 5th Sep 2019.
- Online FDP course on 'Deep Learning and Applications' from 09-13 Dec 2019 in ABV-IIITM, Gwalior.
- Online NPTEL Certification course in 'Theory of Computation', July-Sep 2019.
- Online NPTEL Certification course in 'The Joy of Computing using Python', July-Oct 2019.
- Attended Faculty Development Program on 'Soft Skills' from 03-25 Dec 2019 in ITM University, Gwalior.
- Attended Teacher's Training Program on 'IOT Using Machine learning' from June 24-29, 2019.
- Attended National Workshop on 'Research Methodology' at MITS, Gwalior.
- Attended workshop titled "Cyber World and its Related Crimes" at MITS, Gwalior on 25 February, 2016 under TEQIP Phase- I1.